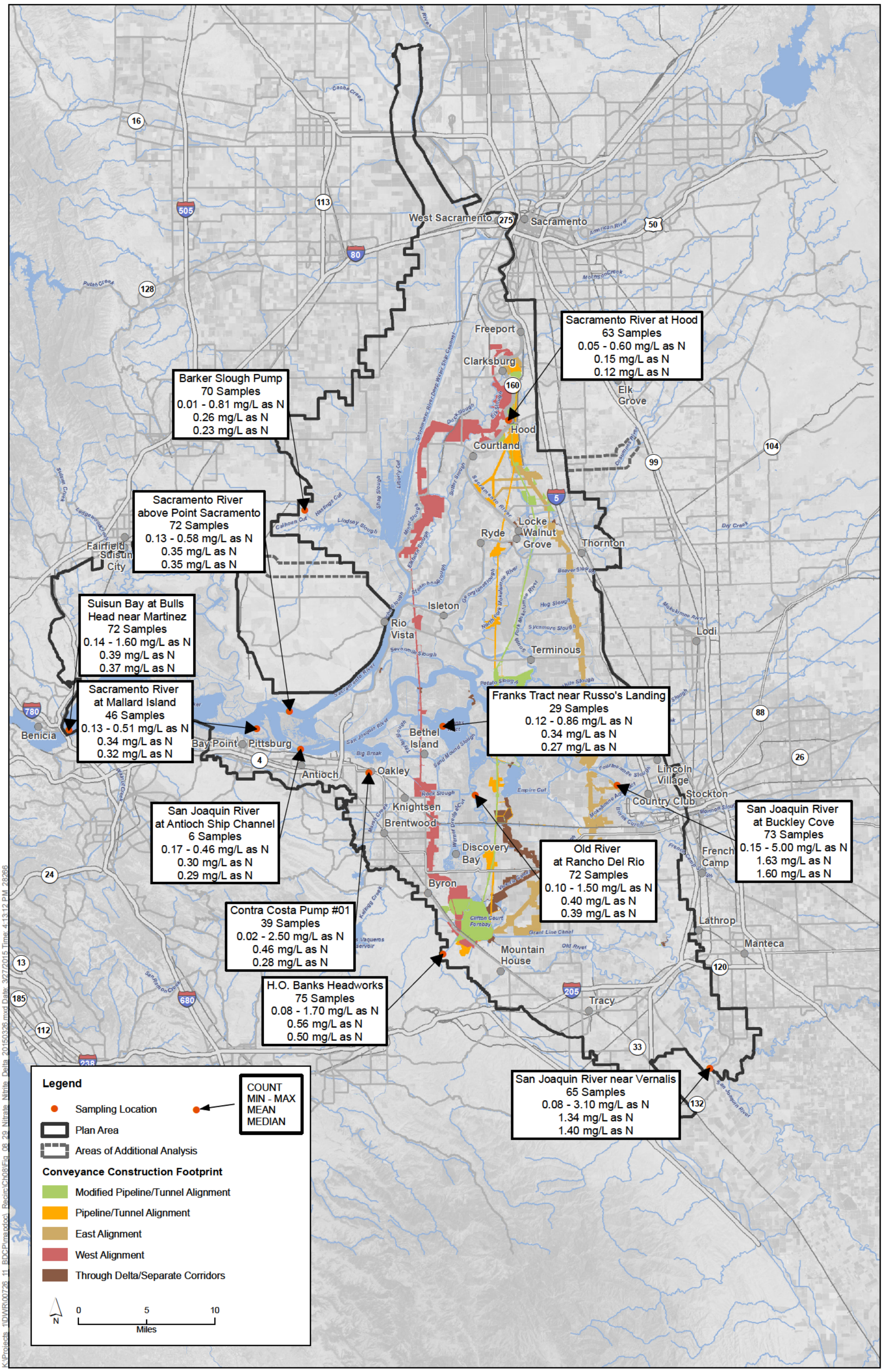
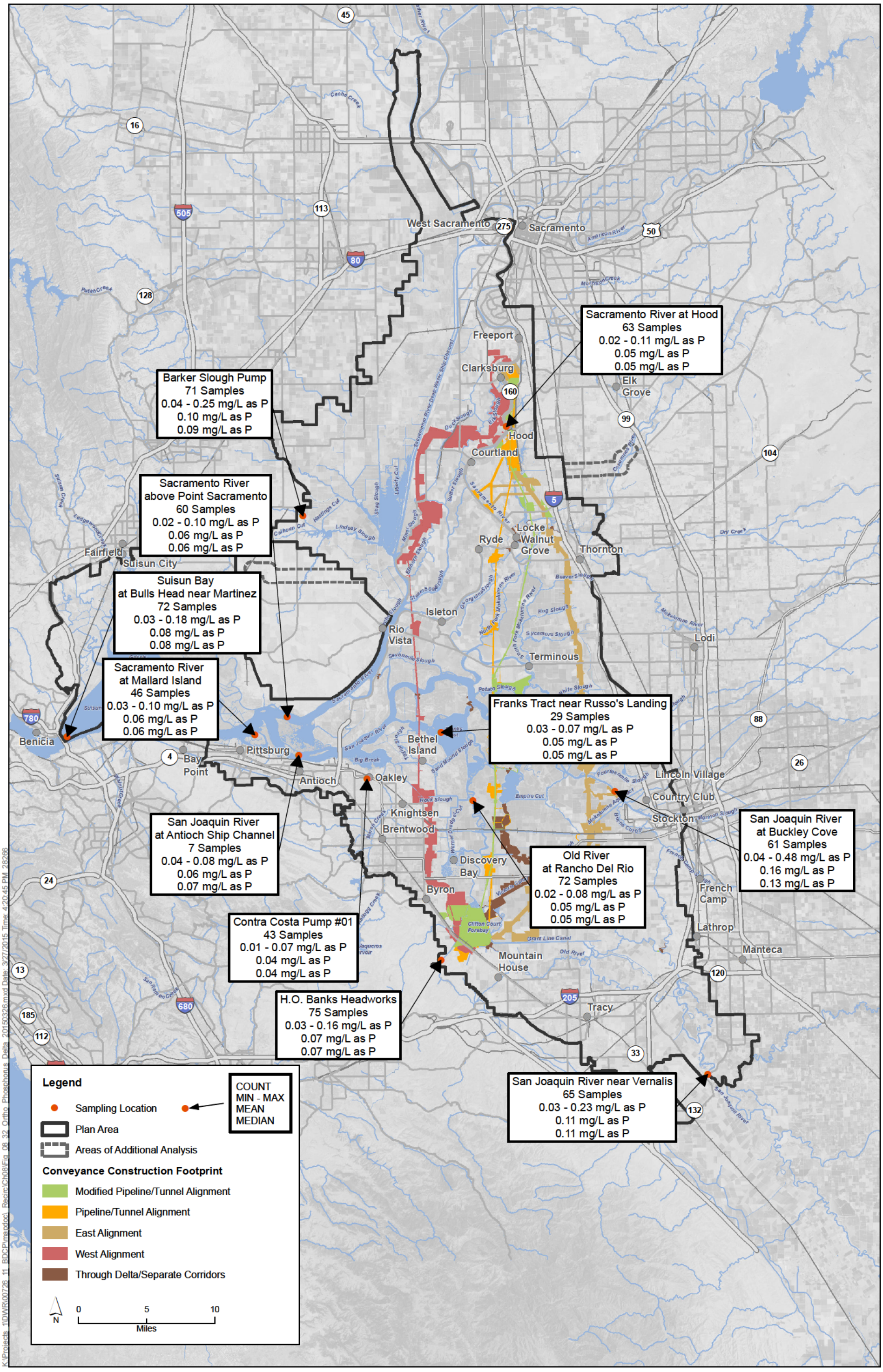


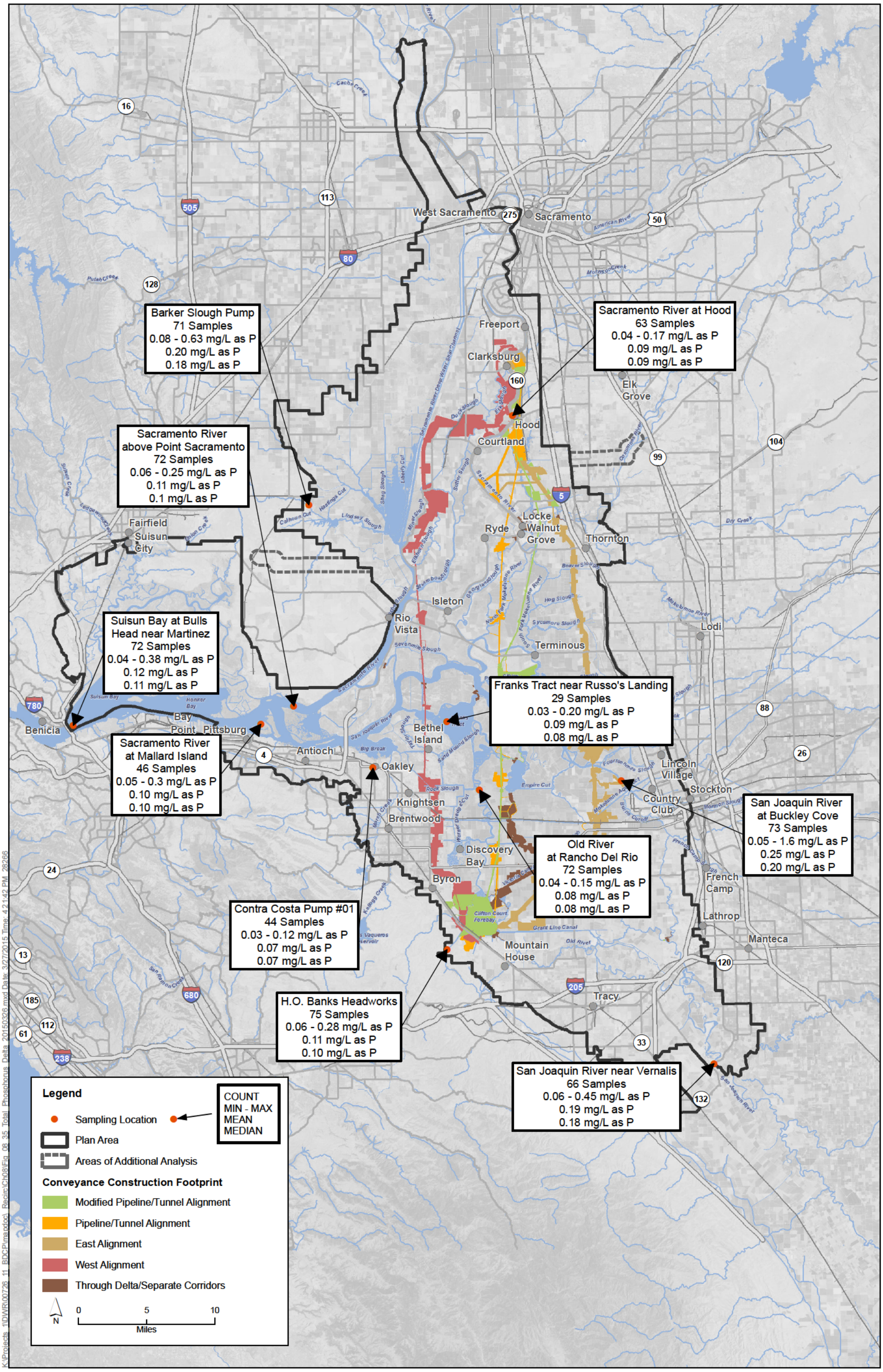
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-29
Spatial Summary of Nitrate/Nitrite Data at Delta Stations (2001 - 2006)



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-32
Spatial Summary of Ortho-Phosphorus Data at Delta Stations (2001 - 2006)



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-35
Spatial Summary of Total Phosphorus Data at Delta Stations (2001 - 2006)

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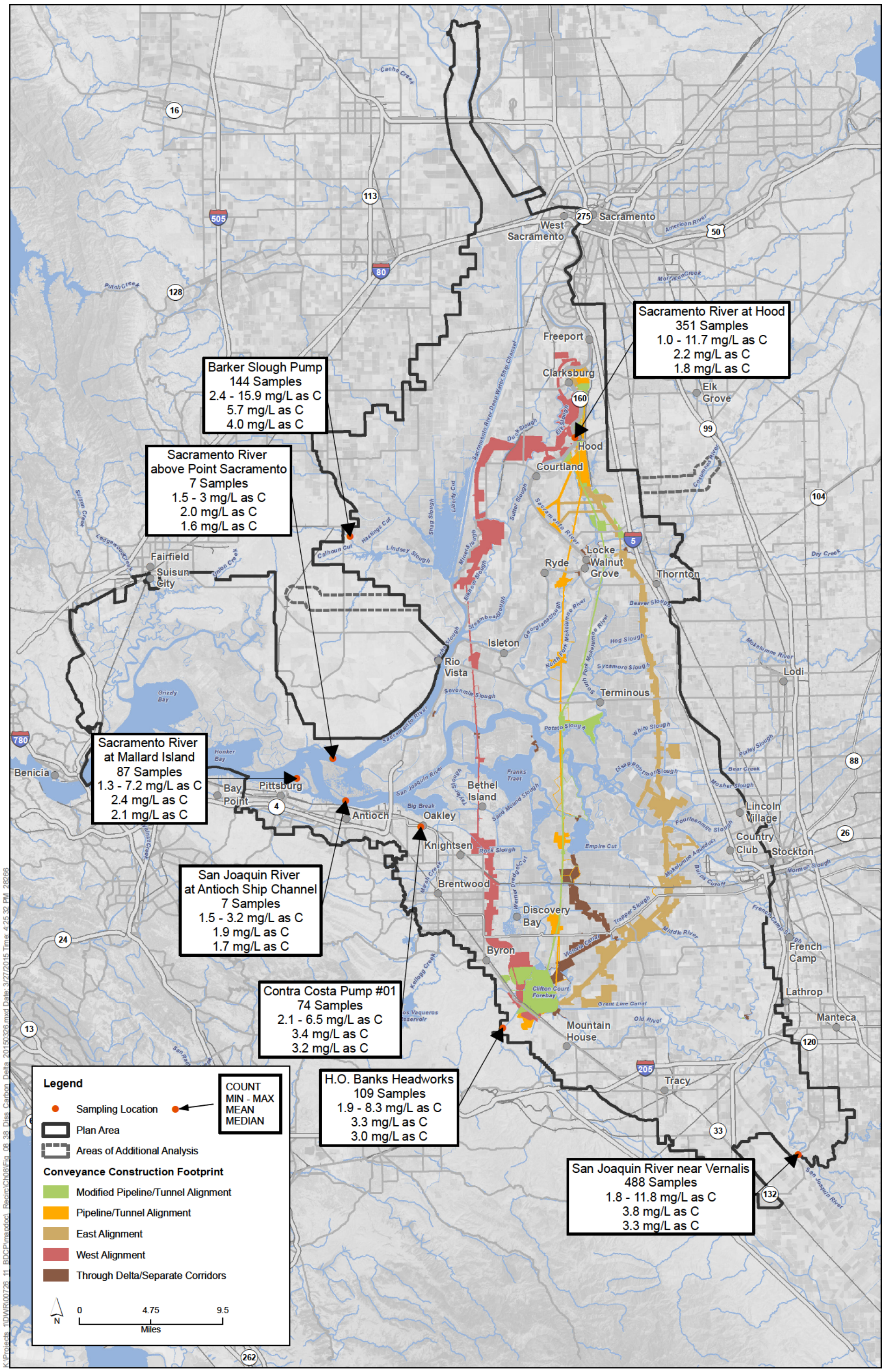
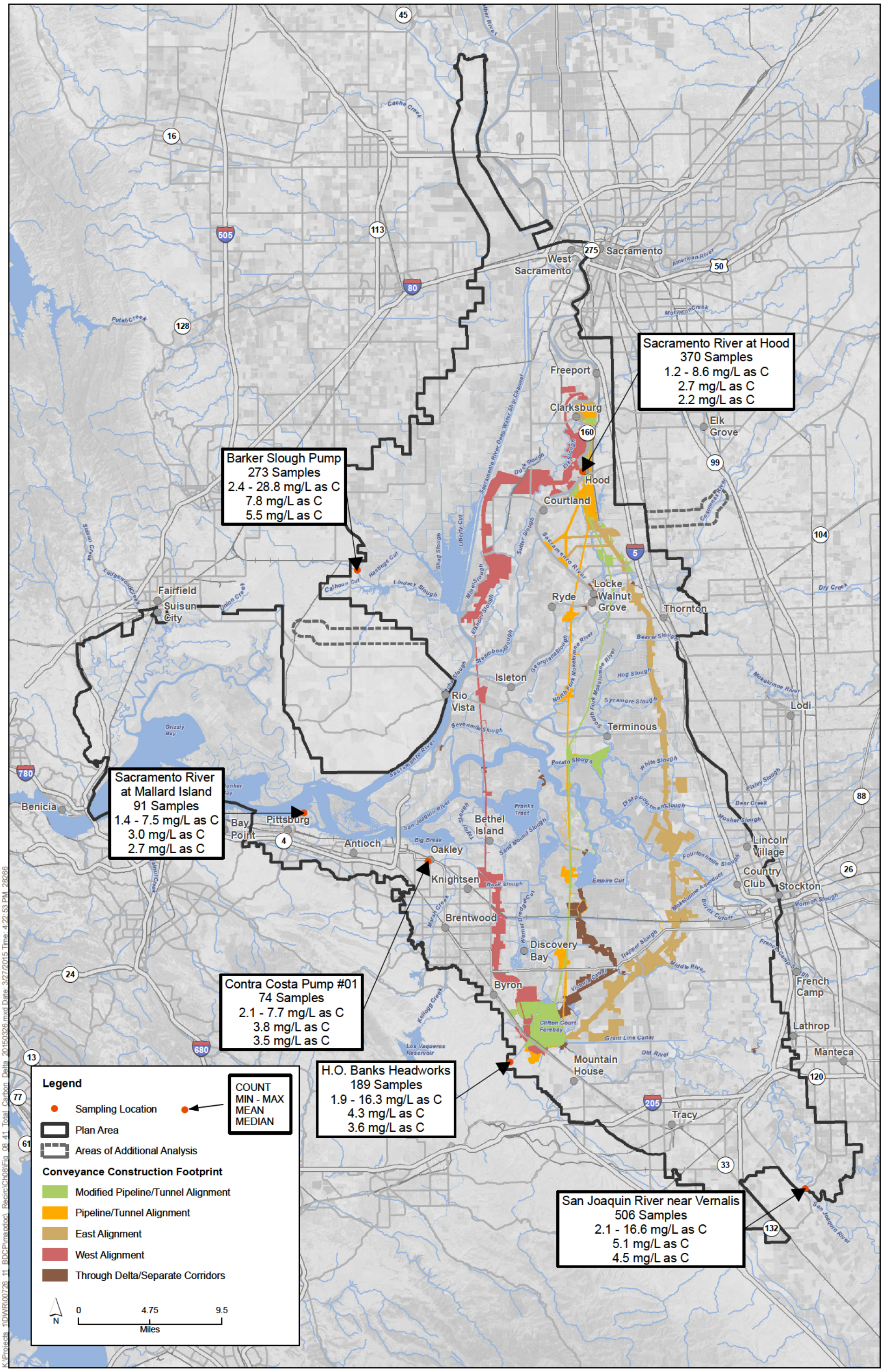


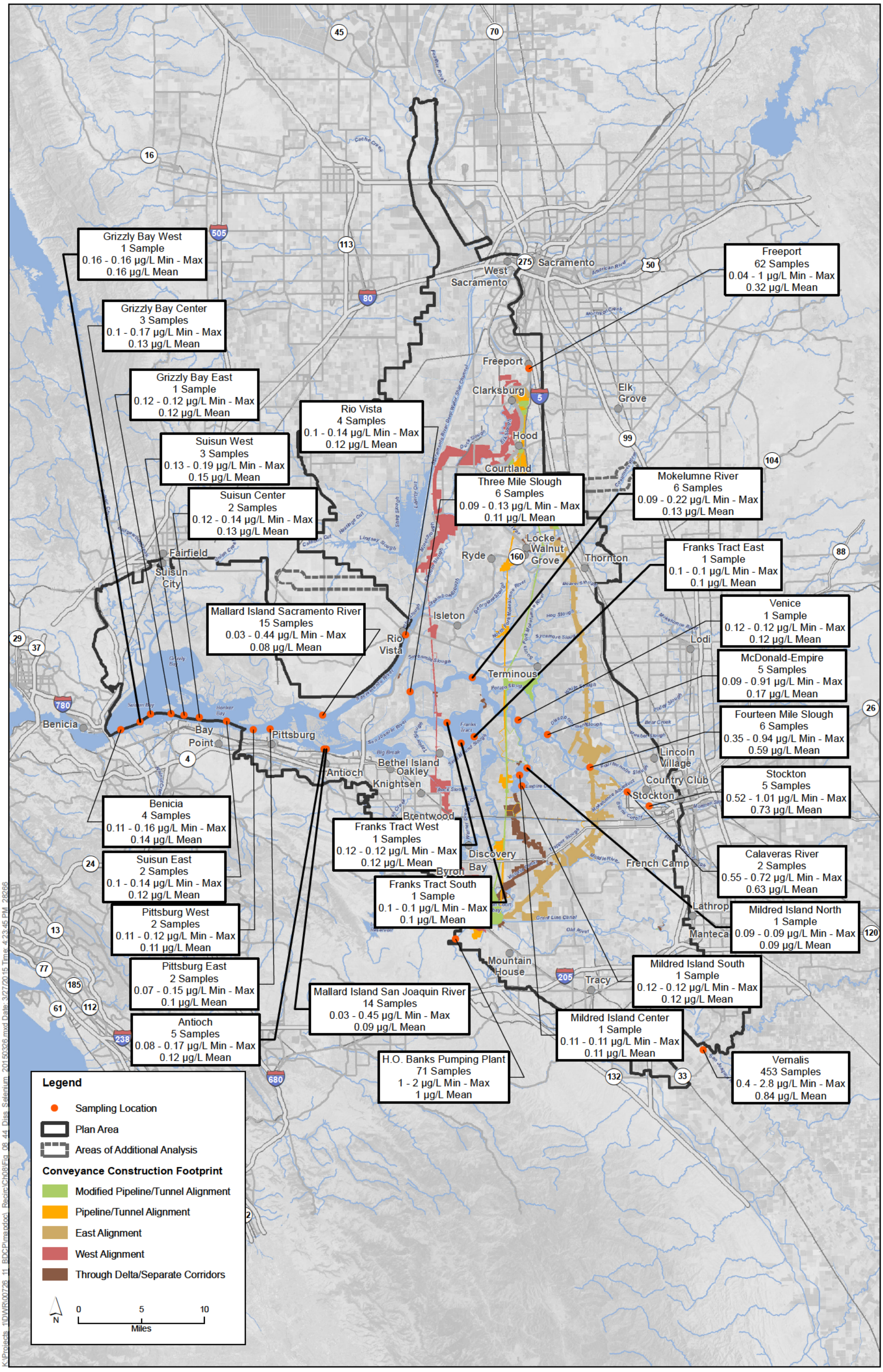
Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-38
Spatial Summary of Dissolved Organic Carbon Data at Delta Stations (2001 - 2006)



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

Figure 8-41
Spatial Summary of Total Organic Carbon Data at Delta Stations (2001 - 2006)



Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012; Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010, Cities; DWR 2010; Selenium, Lucas and Stewart 2007; MWQI, 2003, 2005, 2006, 2008;SFEI 2010; SWAMP 2009; USGS 2010.

Figure 8-44
Spatial Summary of Dissolved Selenium Data (1999 - 2008)

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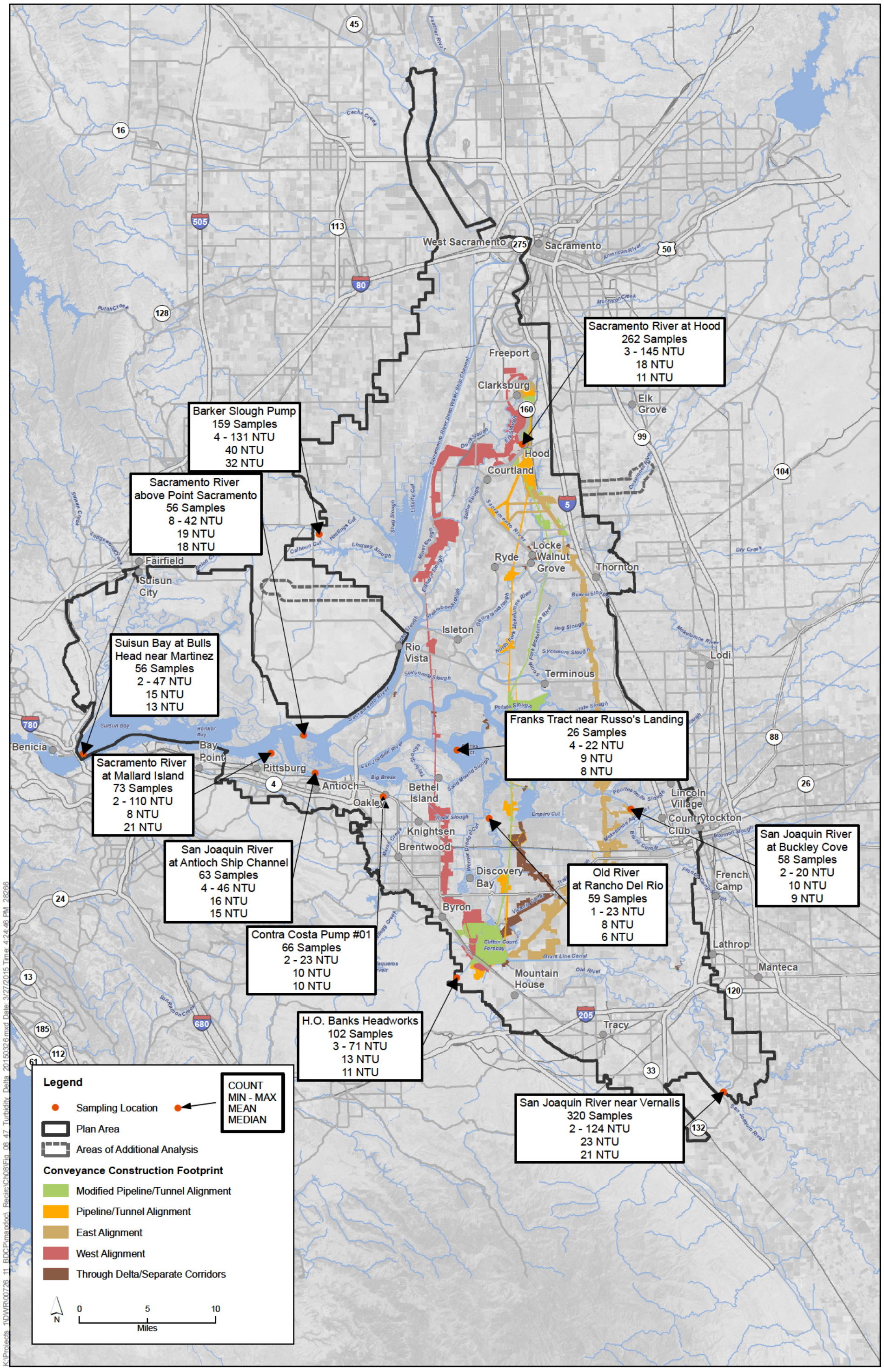
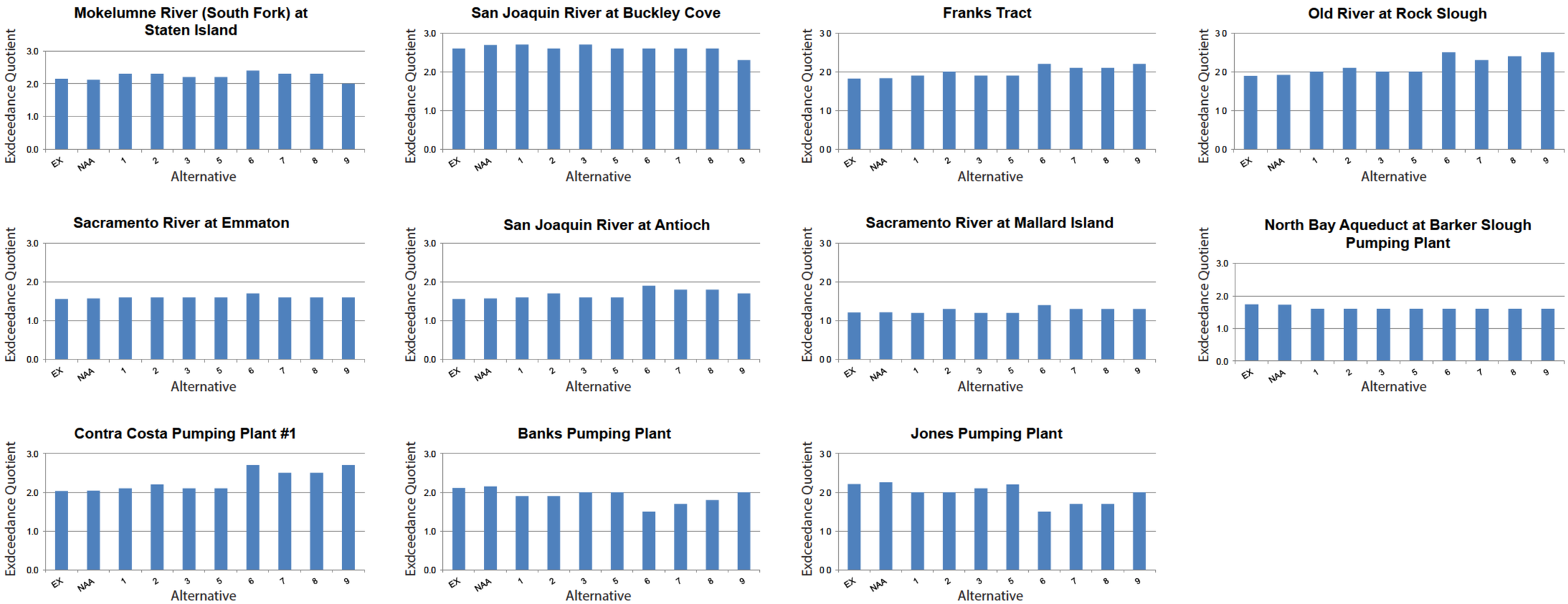


Sources: Plan Area, ICF 2012; Area of Additional Analysis, ICF 2012; Constructability (Rev 10), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015; Constructability (Rev 3b), DHCCP DWR 2012
Streets, ESRI 2010; Aerial Photograph, NAIP 2010; Hydrology, HDR 2010; Water Quality, EMP 1999.

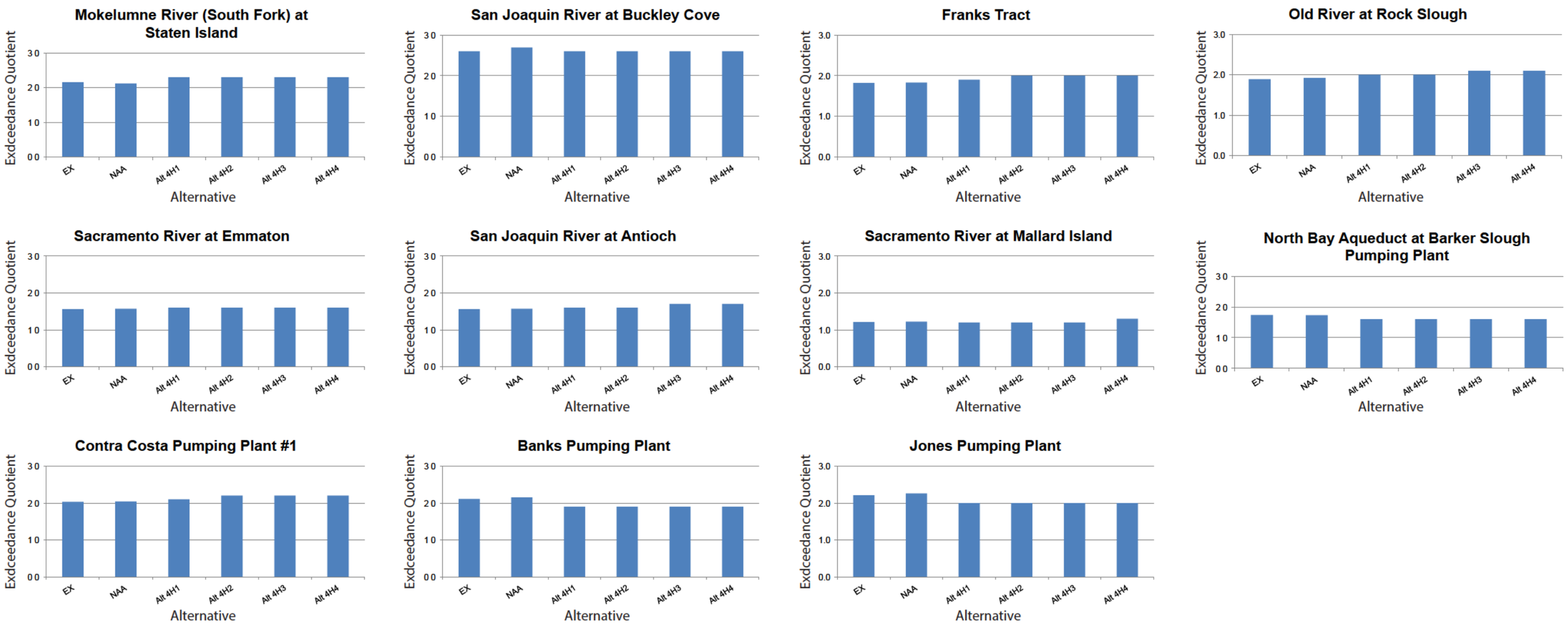
Figure 8-47
Spatial Summary of Turbidity Data at Delta Stations (2001 - 2006)



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (04-1-2015) TM

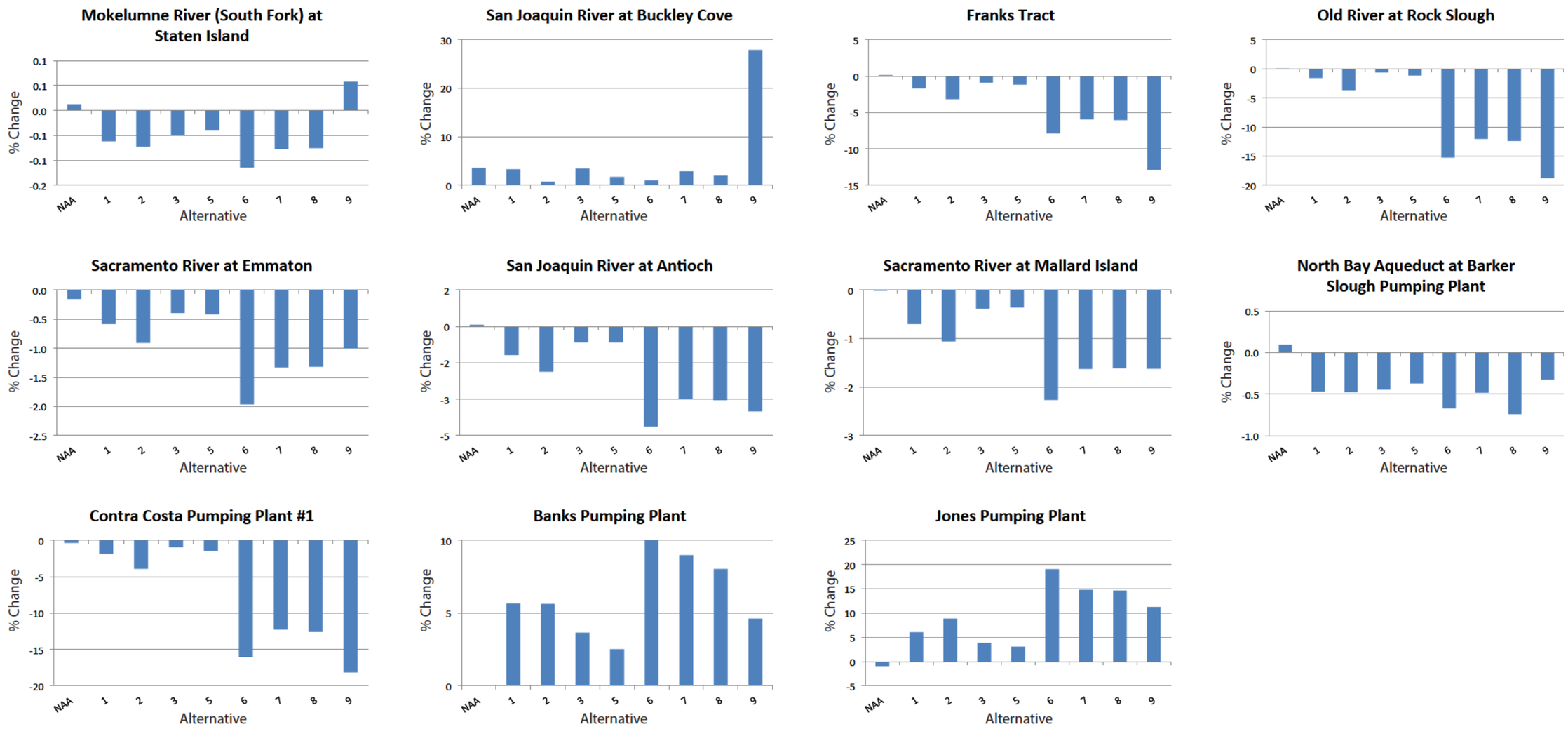
Figure 8-55a
Level of Concern Exceedance Quotients for Methyl Mercury Concentrations in 350 mm Largemouth Bass Fillets for All Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (04-1-2015) TM

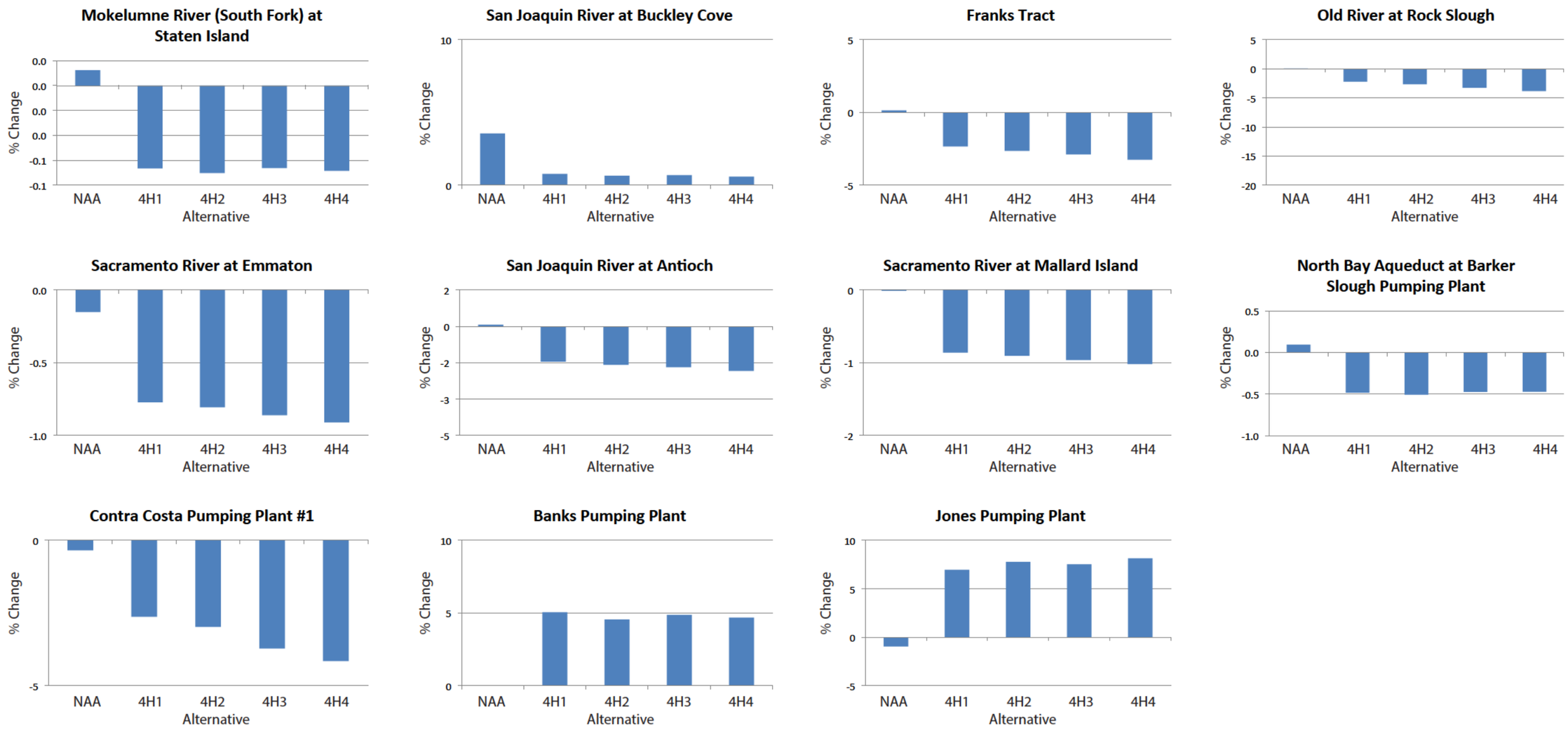
Figure 8-55b
Level of Concern Exceedance Quotients for Methyl Mercury Concentrations in 350 mm Largemouth Bass Fillets for All Years



NAA No Action Alternative

Figure 8-59a
Percent Change in Available Assimilative Capacity for Selenium (Based on 1.3 µg/L Draft Water Quality Criterion for Lentic Aquatic Systems) with Respect to Existing Conditions for All Years

BDCP EIR-EIS / Water Quality (03-31-2015) TM



NAA No Action Alternative

Figure 8-59b
Percent Change in Available Assimilative Capacity for Selenium (Based on 1.3 µg/L Draft Water Quality Criterion for Lentic Aquatic Systems) with Respect to Existing Conditions for All Years

BDCP EIR-EIS / Water Quality (03-31-2015) TM

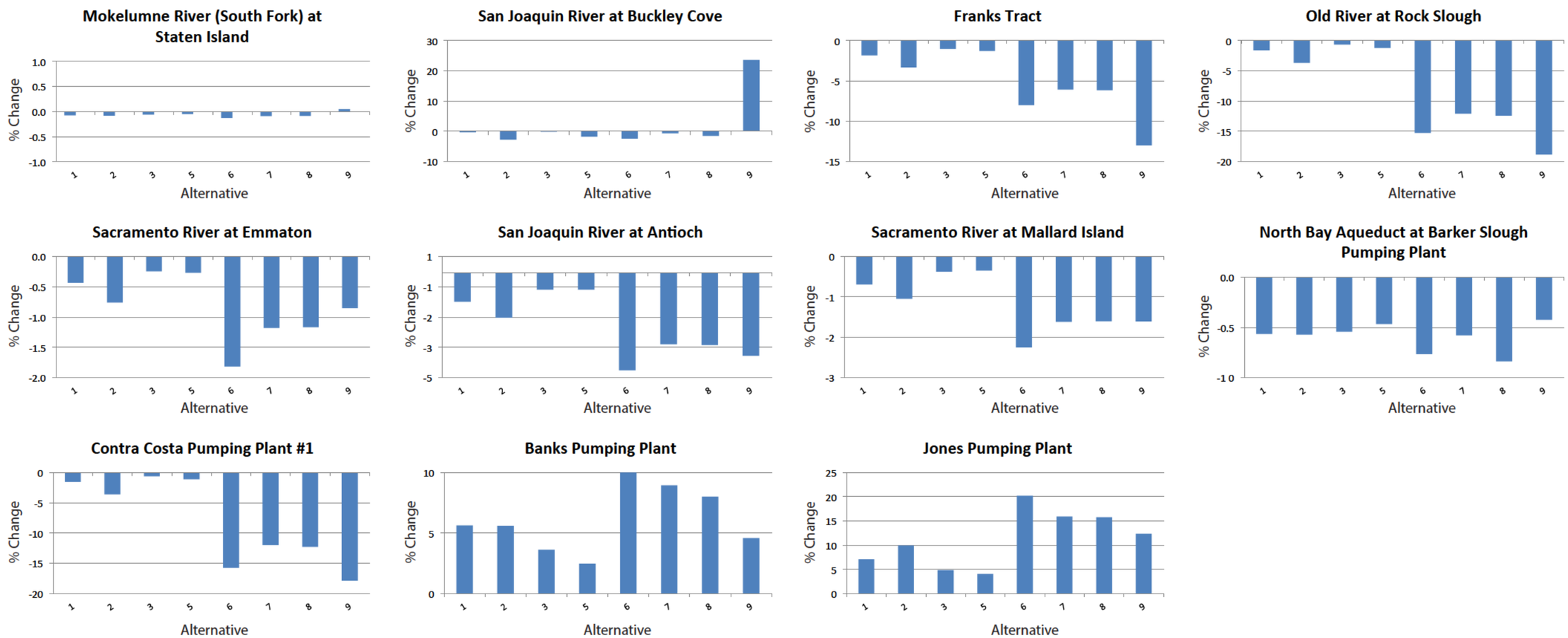


Figure 8-60a
Percent Change in Available Assimilative Capacity for Selenium (Based on 1.3 µg/L Draft Water Quality Criterion for Lentic Aquatic Systems) with Respect to No Action Alternative for All Years

BDCP EIR-EIS / Water Quality (03-31-2015) TM

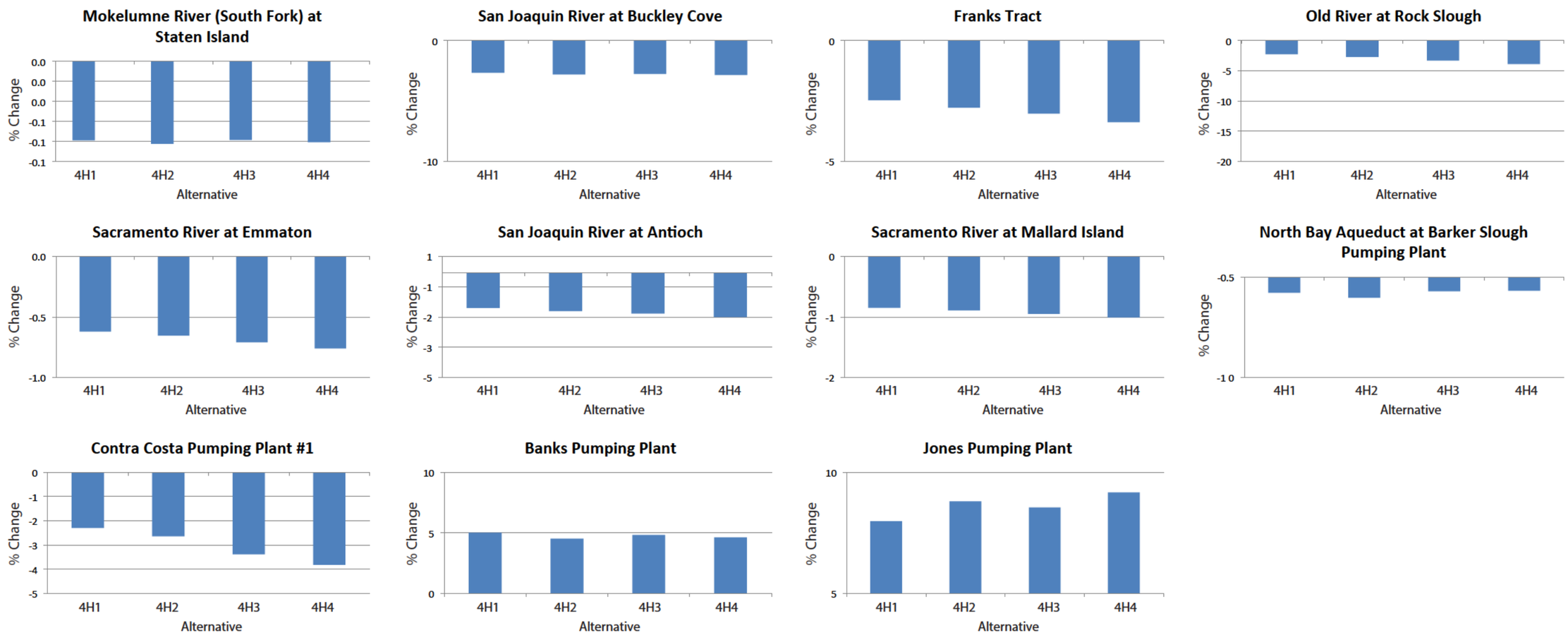
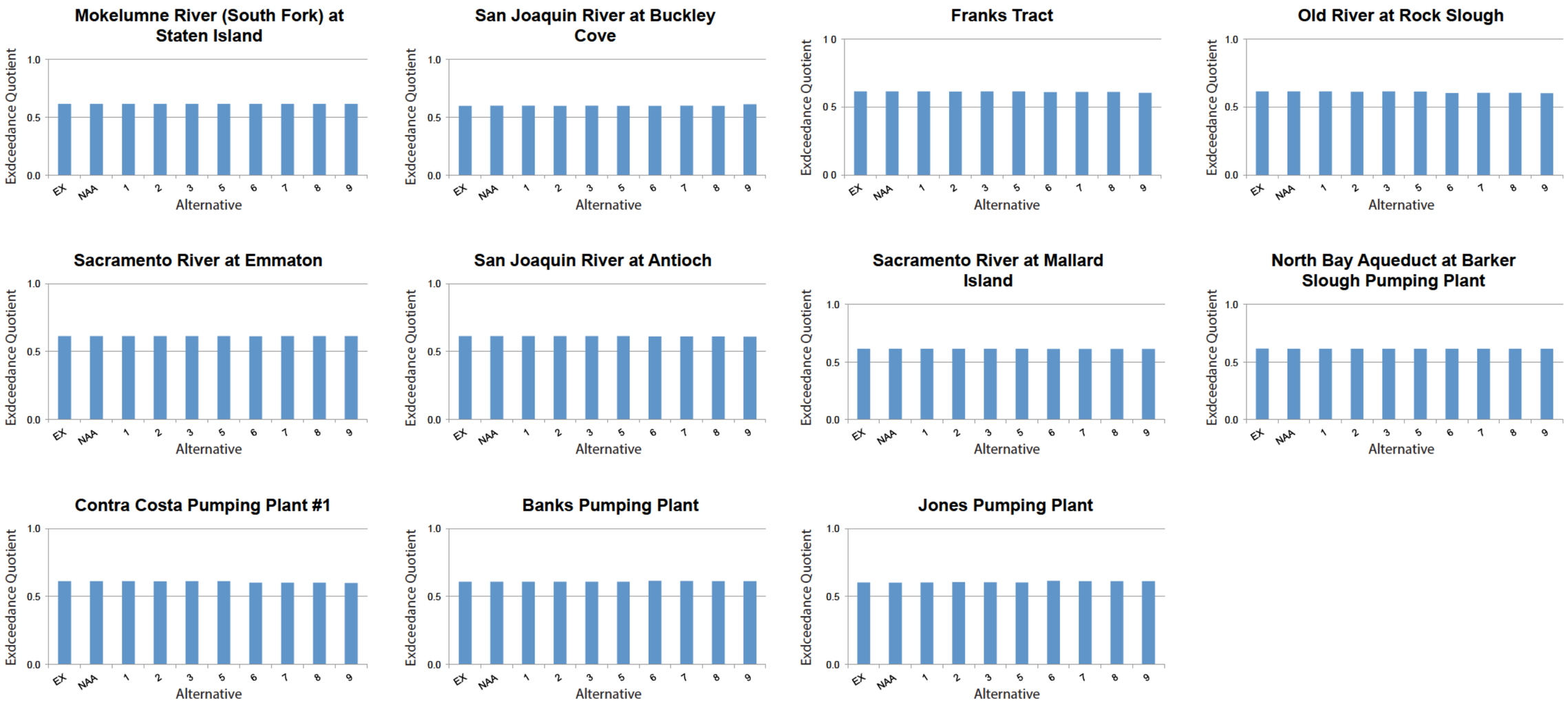


Figure 8-60b
Percent Change in Available Assimilative Capacity for Selenium (Based on 1.3 µg/L Draft Water Quality Criterion for Lentic Aquatic Systems) with Respect to No Action Alternative for All Years

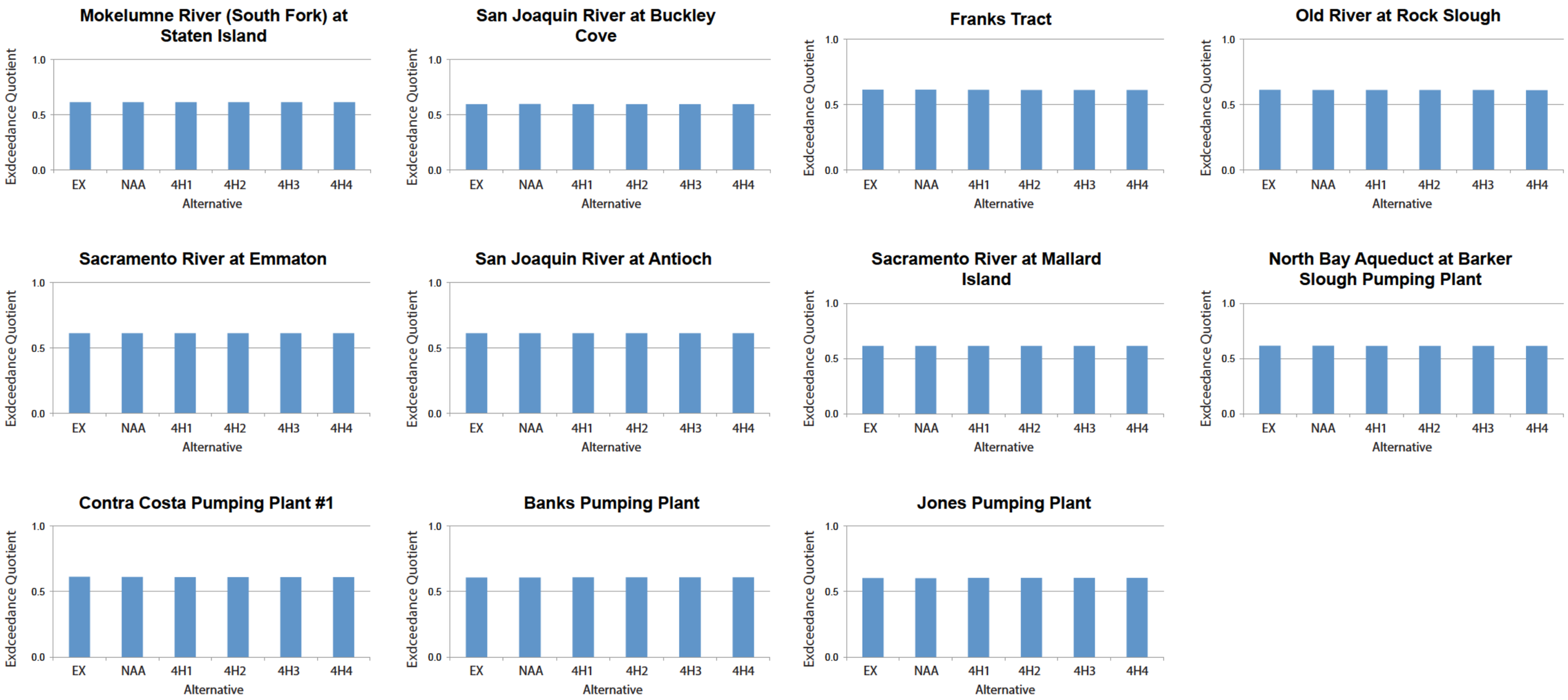
BDCP EIR-EIS / Water Quality (03-31-2015) TM



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS /Water Quality (4-1-2015) TM

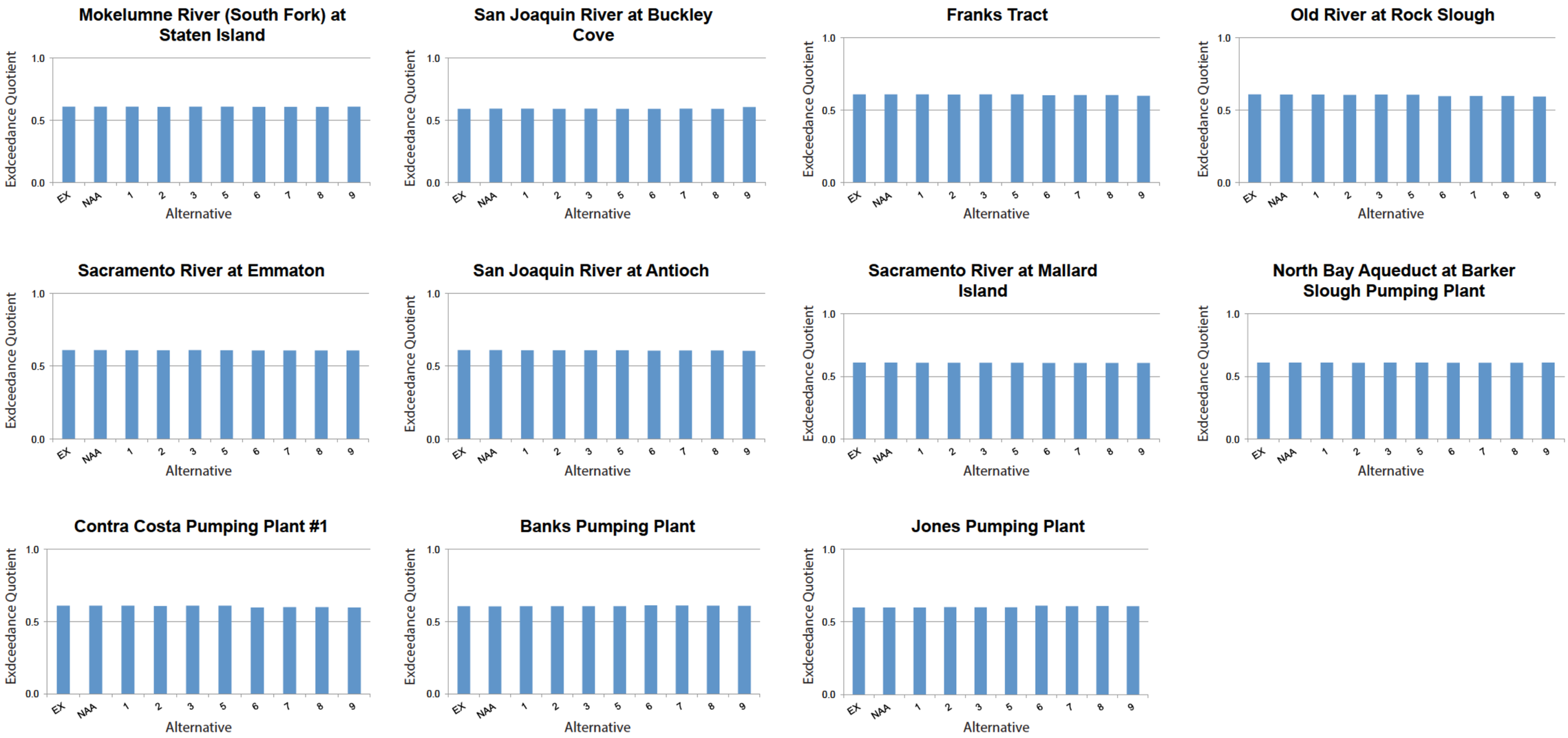
Figure 8-61a
Level of Concern Exceedance Quotients for Selenium Concentrations in Whole-Body Fish for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2015) TM

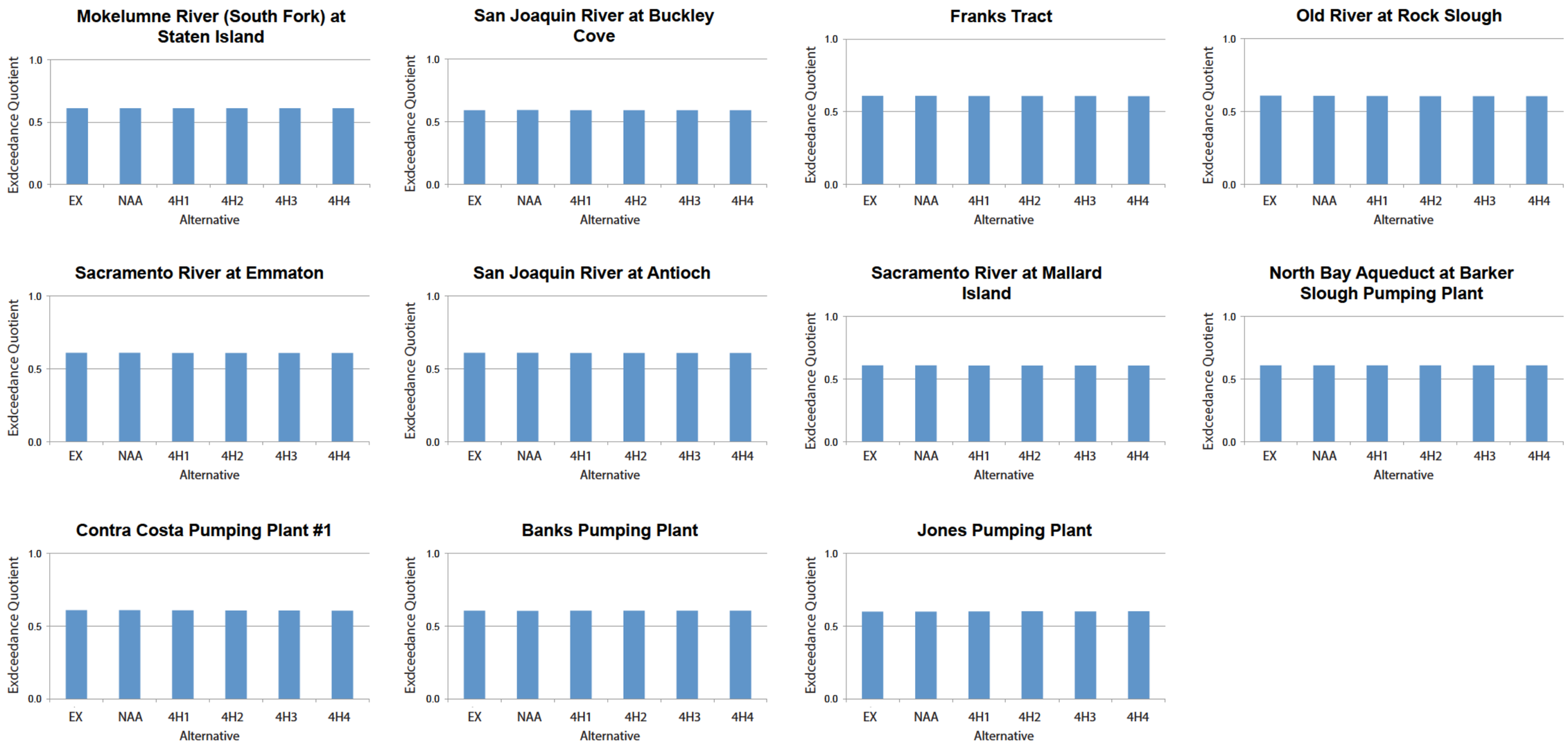
Figure 8-61b
Level of Concern Exceedance Quotients for Selenium Concentrations in Whole-Body Fish for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS /Water Quality (4-1-2015) TM

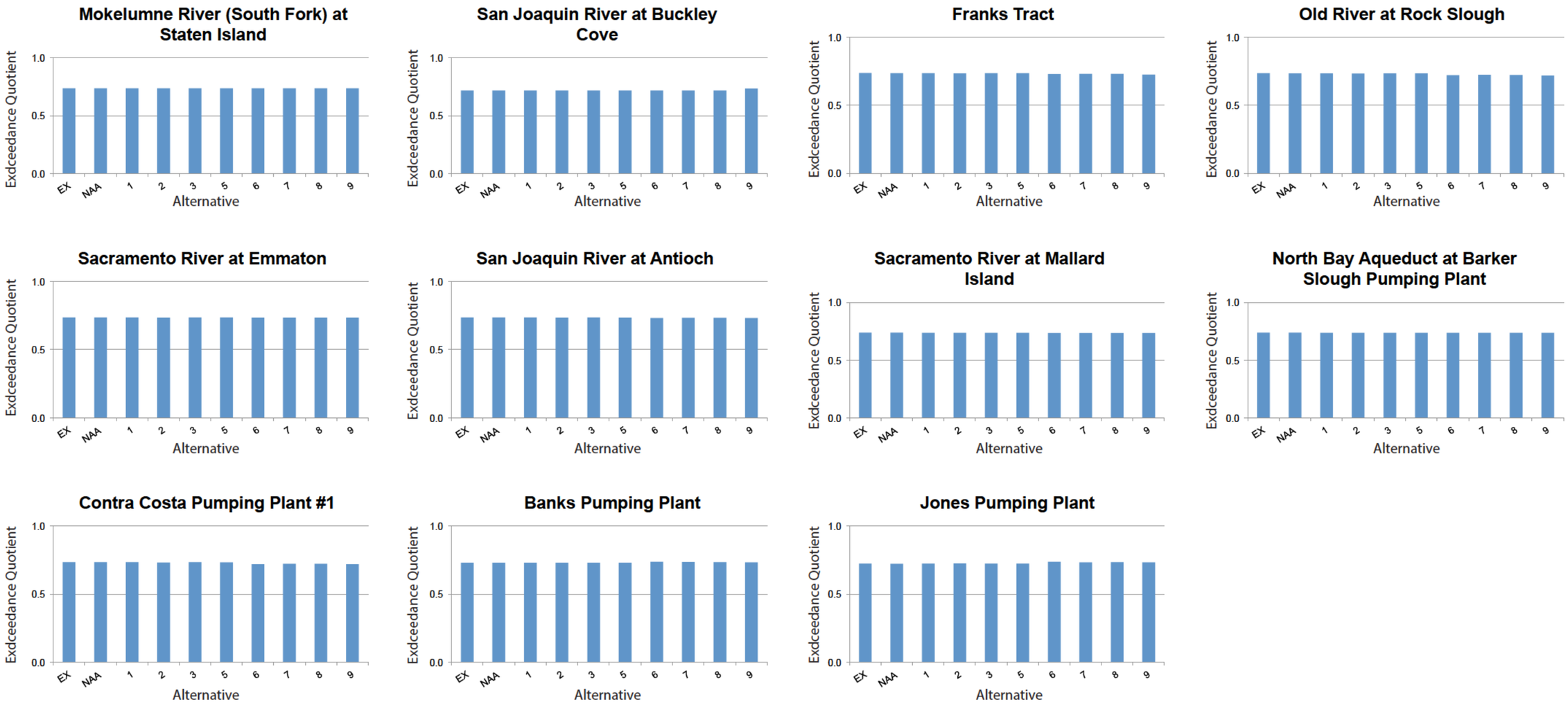
Figure 8-62a
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Invertebrate Diet) for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2015) TM

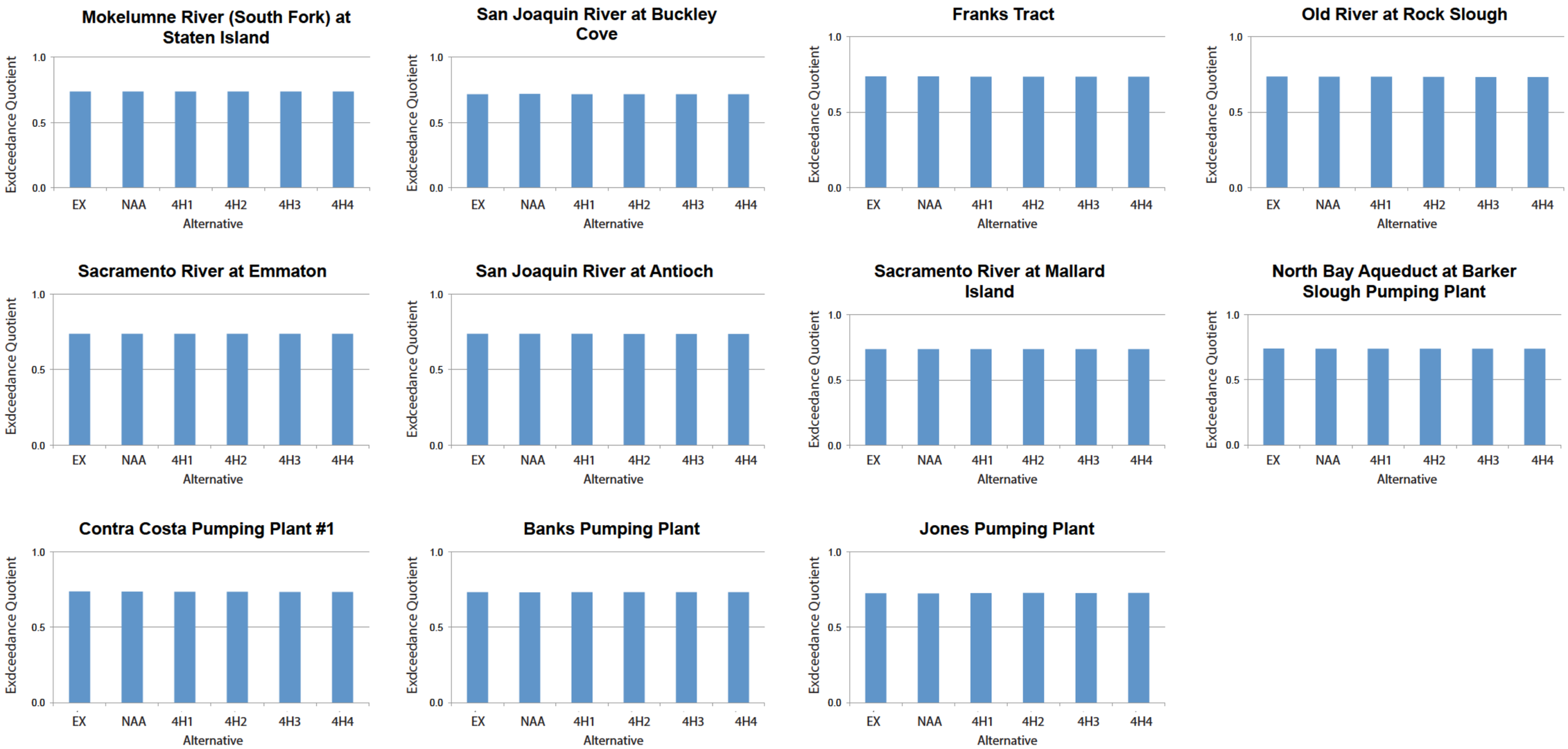
Figure 8-62b
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Invertebrate Diet) for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2015) TM

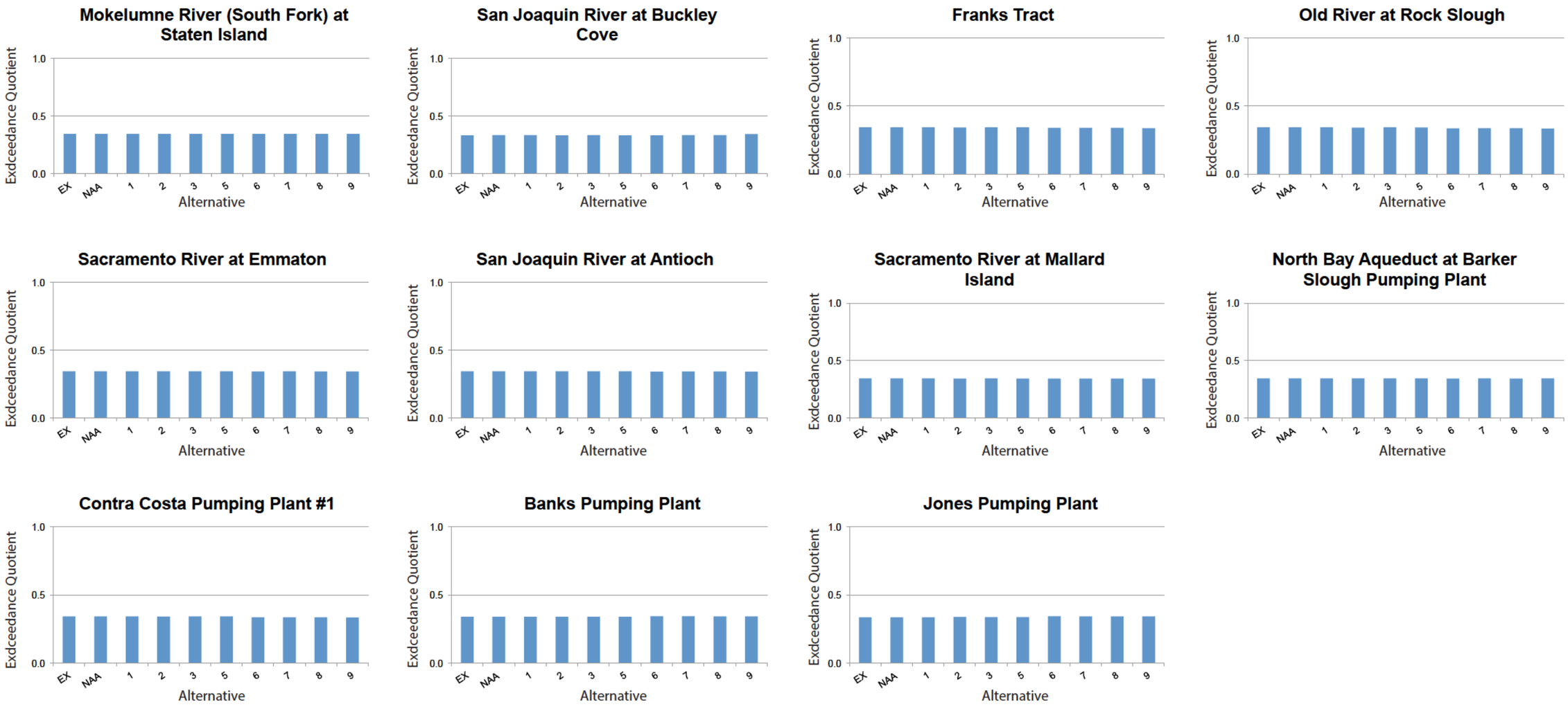
Figure 8-63a
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Fish Diet) for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2013) TM

Figure 8-63b
Level of Concern Exceedance Quotients for Selenium Concentrations in Bird Eggs (Fish Diet) for Drought Years



EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2015) TM

Figure 8-64a
Tissue Advisory Level Exceedance Quotients for Selenium Concentrations in Fish Fillets for Drought Years

EX Existing Conditions
NAA No Action Alternative

BDCP EIR-EIS / Water Quality (4-1-2015) TM

Figure 8-64b
Tissue Advisory Level Exceedance Quotients for Selenium Concentrations in Fish Fillets for Drought Years

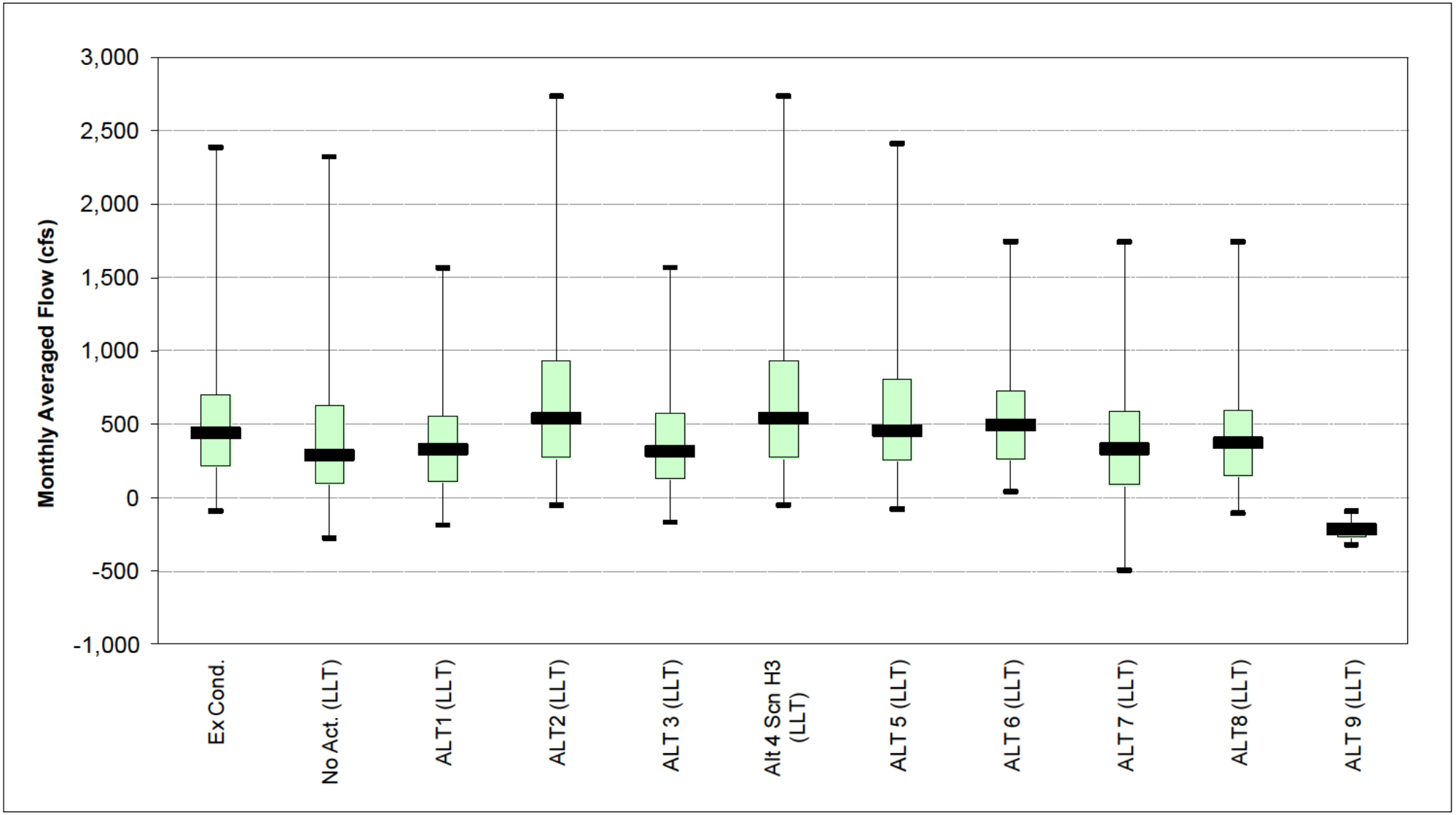
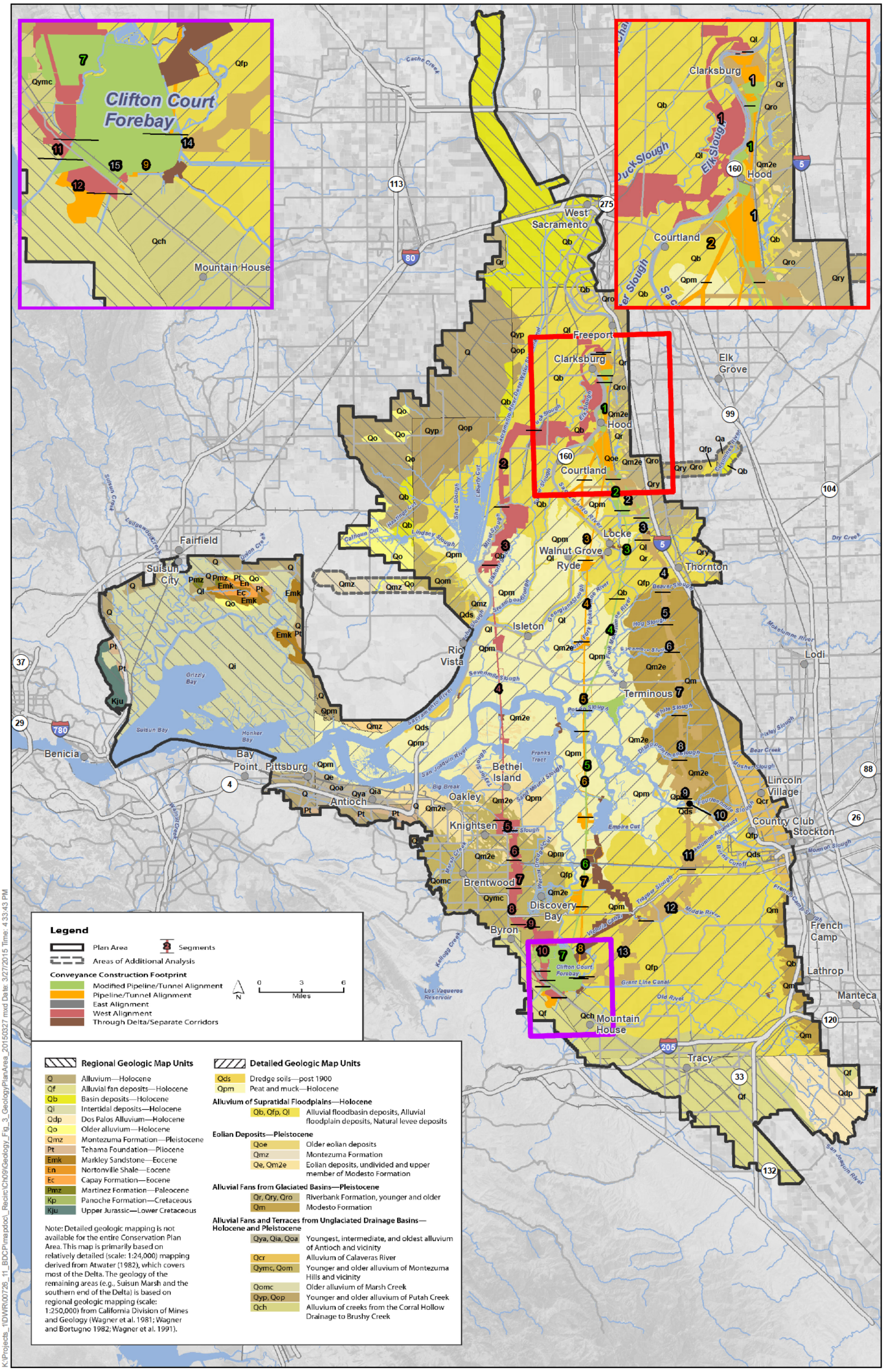
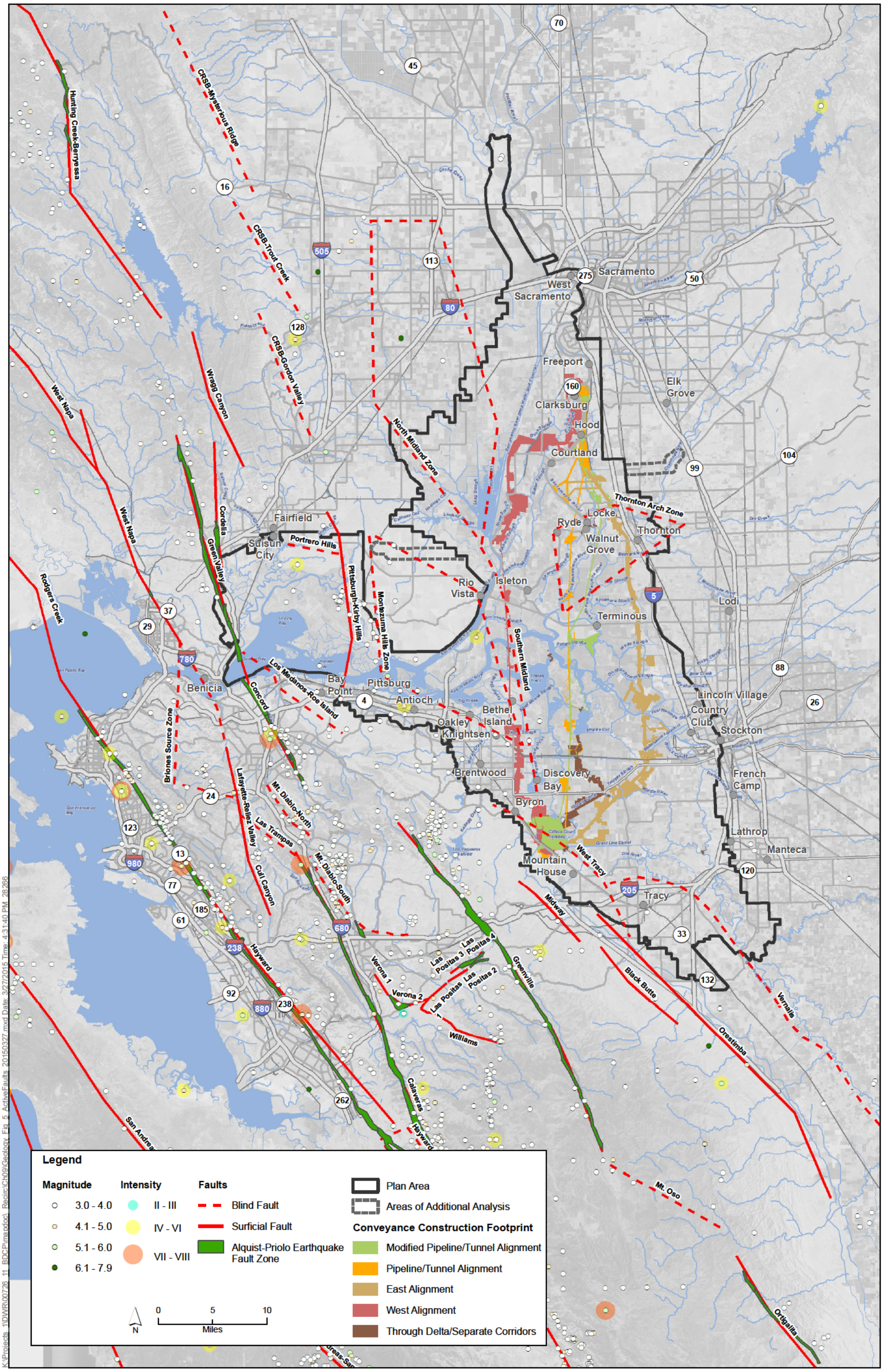


Figure 8-65. Monthly average flow in the San Joaquin River at Stockton for May-October of Dry and Critical water year types for Existing Conditions, No Action Alternative, and Alternatives 1-9. Shown are the maximum, 75th percentile, median, 25th percentile, and minimum flows.



Sources: Plan Area, ICF 2012; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 5a), DHCCP DWR 2015 Constructability (Rev 3b), DHCCP DWR 2012; Geology, ICF 2012.

Figure 9-3
Geology of the Plan Area



Sources: Plan Area, ICF 2012; Alquist-Priolo Earthquake Fault Zones (EFZ), California Geological Survey 2001; Faults, DRMS 2008; Seismicity/Magnitude, URS 2010, Constructability (Rev 5a), DHCCP DWR 2015 Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012

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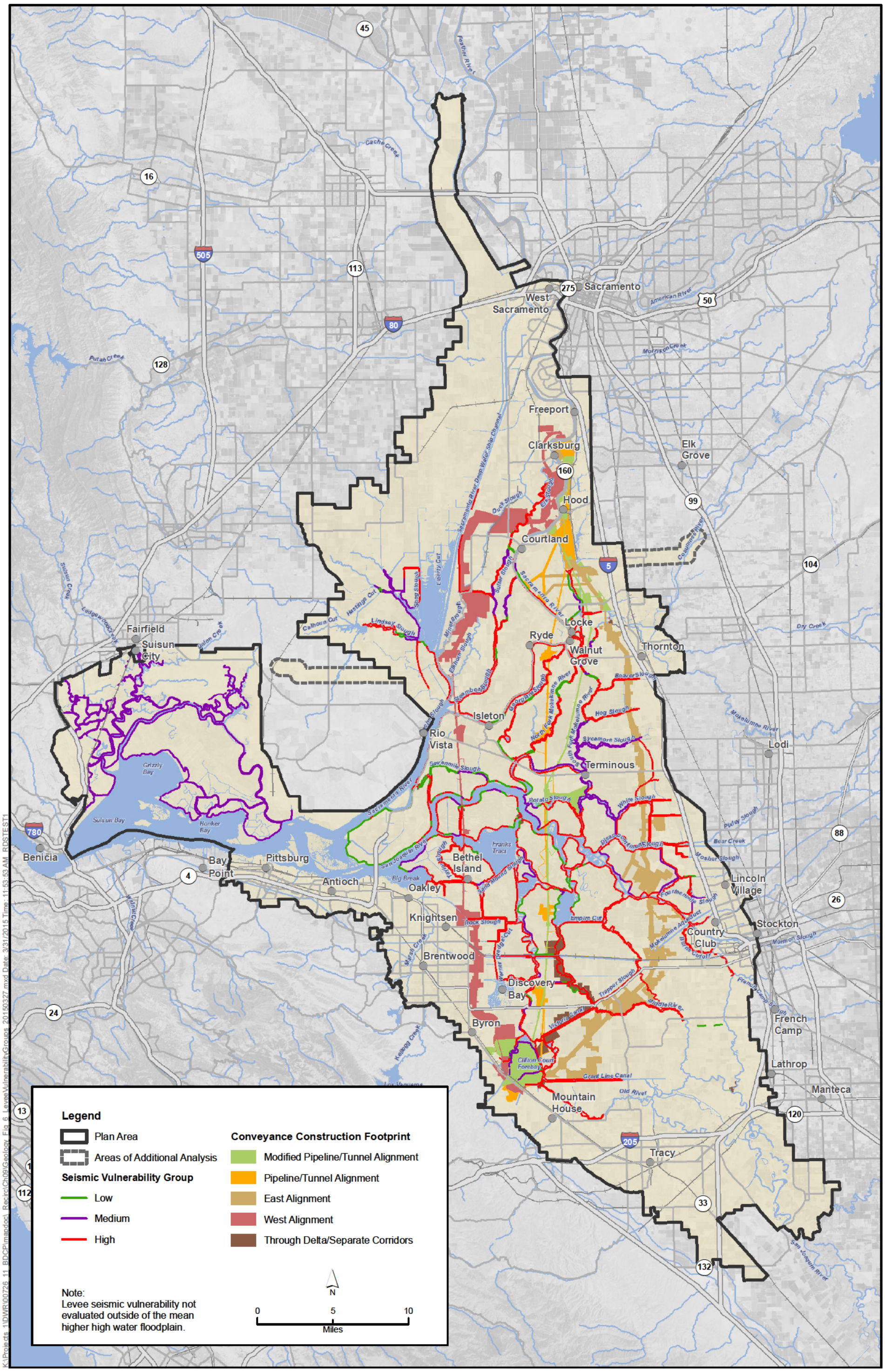
Figure 9-5
Active Faults and Historical Seismicity of the Bay and Delta Region, 1800–2010



Sources: Plan Area, ICF 2012; Levee Seismic Vulnerability Groups, California DWR 2008b; Constructability (Rev 10b), DHCCP DWR 2012; Constructability (Rev 3b), DHCCP DWR 2012, Constructability (Rev 5a), DHCCP DWR 2015

Figure 9-6
Levee Seismic Vulnerability Groups