

Appendix D

Record of Non-Applicability & Air Quality Data

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UNITED STATES MARINE CORPS
MARINE CORPS INSTALLATIONS WEST-MARINE CORPS BASE BOX 555010
CAMP PENDLETON, CALIFORNIA 92055-5010

5090
ENV/PLN

MEMORANDUM FOR THE RECORD

From: Commanding General
To: Director, Environmental Security

Subj: RECORD OF NON-APPLICABILITY (RONA) FOR NEPA 19971002;
SANTA MARGARITA RIVER CONJUNCTIVE USE PROJECT, MCB CAMP
PENDLETON, DET FALLBROOK, AND COMMUNITY OF FALLBROOK,
CALIFORNIA

Ref: (a) U.S. Environmental Protection Agency, Determining
Conformity of General Federal Actions to State or
Federal Implementation Plans; Final Rule,
published in the Federal Register on 30 November
1993 (40 CFR Parts 6, 51, and 93)
(b) U.S. Environmental Protection Agency, Revisions to
the General Conformity Regulations; Final Rule,
published in the Federal Register on 5 April 2010 (40
CFR Parts 51 and 93)
(c) OPNAVINST 5090.1C (Appendix F)

Encl: (1) Santa Margarita River Conjunctive Use Project
Emissions Analysis for Clean Air Act
Conformity Applicability

1. References (a), (b), and (c) provide implementing guidance for documenting Clean Air Act (CAA) Conformity Determination requirements. The General Conformity Rule applies to federal actions proposed within areas which are designated as either non-attainment or maintenance areas for a National Ambient Air Quality Standard (NAAQS) for any of the criteria pollutants.

2. The Proposed Action would occur within the San Diego Air Basin (SDAB) at DET Fallbrook and the community of Fallbrook, California, and the San Diego Air Basin (SDAB) portion of Marine Corps Base Camp Pendleton. This portion of the SDAB is currently in non-attainment of the 8-hour ozone (O₃) NAAQS and is a maintenance area for carbon monoxide (CO) NAAQS. The SDAB is in attainment of the NAAQS for all other criteria pollutants. Therefore, only project emissions of CO and O₃ (or

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D-1

Subj: RECORD OF NON-APPLICABILITY (RONA) FOR NEPA 19971002;
SANTA MARGARITA RIVER CONJUNCTIVE USE PROJECT, MCB CAMP
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CALIFORNIA

its precursors, volatile organic compounds [VOCs] and oxides of nitrogen [NO_x]) were analyzed for conformity rule applicability. The annual *de minimis* threshold levels for this region are 100 tons of VOC, NO_x, and CO. Federal actions may be exempt from conformity determinations if they do not exceed designated *de minimis* threshold levels.

3. An emissions analysis for the Santa Margarita River Conjunctive Use Project is presented in the enclosure. *De minimis* thresholds for applicable criteria pollutants would not be exceeded as a result of implementation of the Proposed Action and a formal Conformity Determination is not considered necessary.

4. To the best of my knowledge, the information presented in this RONA is correct and accurate, and I concur in the finding that implementation of the Proposed Action does not require a formal CAA Conformity Determination.

KEVIN J. KILLEA

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ENV

Table A-2
Santa Margarita River Conjunction Use Project
Construction Truck Emissions

Vehicle Class	No. of Trucks Per Construction Phase	Speed (mph)	VMT (mi/vehicle-day)	CO Running Exhaust (g/mi)		NO _x Running Exhaust (g/mi)		VOC Running Exhaust (g/mi)		SO _x Running Exhaust (g/mi)		PM10 Running Exhaust (g/mi)			PM2.5 Running Exhaust (g/mi)			CH ₄ Running Exhaust (g/mi)		Emissions, lbs/day					
				CO	NO _x	VOC	SO _x	Running Exhaust	Brake Wear	Tire Wear	Running Exhaust	Brake Wear	Tire Wear	Running Exhaust	Brake Wear	Tire Wear	CO	NO _x	VOCs	SO _x	PM10	PM2.5	CO ₂	CH ₄	
Heavy-duty truck	15	27	40	6.303	17.209	1.262	0.019	0.713	0.036	0.028	0.656	0.009	0.012	1992.7	0.059	8.34	22.76	1.67	0.03	1.03	0.90	2635.9	0.08		
																	Emissions, tons/year								
																	CO	NO _x	VOCs	SO _x	PM10	PM2.5	CO ₂	CH ₄	
																	1.04	2.85	0.21	0.00	0.13	0.11	329.48	0.01	

Emission Factors from EMFAC2007, Year 2009, 60 F, 27 mph

Unpaved Road Emissions
 $E = k(s/12)^a(w/3)^b$
 Assume $s = 8.5$
 Assume $W = 10$
 Assume 5 miles of travel per vehicle per day
 Emission Factor 1.8906 0.1891
 Control Efficiency 61% 61%
 Emissions, lbs/day 55.30 5.53
 Emissions, tons/year 6.91 0.69

Table A-3
Santa Margarita River
Comprehensive Use Project
Worker Vehicle Emissions

Construction Phase	Vehicle Class	No. of Workers	Speed (mph)	VMT (mi/veh/cle-day)	CO		NO _x		VOCs			SO _x			PM10			PM2.5			CO2		CH4		Emissions, lbs/day																					
					Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Diurnal Evaporative (g/hr)	Running Evaporative (g/mi)	Resting Loss (g/hr)	Hot-Soak (g/trip)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Tire Wear (g/mi)	Brake Wear (g/mi)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Tire Wear (g/mi)	Brake Wear (g/mi)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	Running Exhaust (g/mi)	Start-Up Exhaust (g/start)	CO	NO _x	VOCs	SO _x	PM10	PM2.5	CO2	CH4	CO	NO _x	VOCs	SO _x	PM10	PM2.5	CO2	CH4				
All	Light-duty truck, Category I	50	33	40	2.524	11,289	0.284	0.56	0.055	0.816	0.183	0.024	0.047	0.054	0.004	0.002	0.013	0.016	0.008	0.013	0.011	0.014	0.002	0.005	399.538	203.967	0.027	0.046	14.14	1.31	0.05	0.02	0.15	0.08	1794.15	0.12	1.77	0.16	0.08	0.00	0.02	0.01	223.02	0.02	26.76	0.0019

Assume startup after 8 hours
Assume 45 minutes run
2009 Emission Factors

Table A-4
 Santa Margarita River Conjointive Use Project
 Operational Maintenance Activities
 Heavy Equipment Emissions

Operational/Maintenance Activities (Alt. 1, Alt. 2)	Fuel	HP	Load Factor	Emission Factors, g/bhp-hr										No. of Equipment		Emissions, lbs/day										Emissions, tons/year									
				CO	VOC	NOx	SOx	PM10	PM2.5	CO2	CH4	N2O	CO	VOC	NOx	SOx	PM10	PM2.5	CO2	CH4	N2O	CO	VOC	NOx	SOx	PM10	PM2.5	CO2	CH4	N2O					
Excavator	Diesel	168	57	2.19	0.59	6.15	0.006	0.229	0.204	588.3	0.653	0.584	1	4	1	1.85	0.50	5.19	0.01	0.19	0.17	479.81	0.04	0.48	0.02	0.01	0.07	0.00	0.00	0.00	6.24	0.00	0.01		
Tractors/Loaders/Backhoes	Diesel	108	55	4.07	1.19	7.16	0.007	0.654	0.582	588.3	0.108	0.680	1	4	1	2.13	0.62	3.75	0.00	0.34	0.30	297.69	0.06	0.36	0.03	0.01	0.05	0.00	0.00	3.87	0.00	0.00			
															3.98	1.12	8.94	0.01	0.54	0.48	777.60	0.10	0.85	0.05	0.01	0.12	0.00	0.01	10.11	0.00	0.01				

Table A-5
 Santa Margarita River Conjunction Use Project
 Operational Maintenance Truck Emissions

Vehicle Class	No. of Trucks Per Construction Phase	Speed (mph)	VMT (mi/vehicle day)	CO		NO _x		VOC		SO _x		PM10			PM2.5			CO ₂		CH ₄			
				Running Exhaust (g/mi)	Exhaust (g/mi)																		
Heavy-duty truck	15	27	40	6.303	17.209	1.262	0.019	0.036	0.028	0.656	0.009	0.012	1992.669	0.059	8.34	22.76	1.67	0.03	1.03	0.90	2635.86	0.08	

Emissions, tons/year					
CO	NO _x	VOCs	SO _x	PM10	PM2.5
0.13	0.34	0.03	0.00	0.02	0.01
					39.54
					0.00

Emission Factors from EMFAC2007, Year 2009, 60 F, 27 mph

Unpaved Road Emissions
 $E = k(s/12)^a(w/3)^b$
 Assume $s = 8.5$
 Assume $W = 10$
 Assume 5 miles of travel per vehicle per day
 Emission Factor 1.890604 0.18906
 Control Efficiency 61% 61%
 Emissions, lbs/day 55.30017 5.530017
 Emissions, tons/year 0.829503 0.08295

Appendix E

Agency Correspondence

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**OFFICE OF HISTORIC PRESERVATION
DEPARTMENT OF PARKS AND RECREATION**

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September 19, 2013

Reply in Reference To: USMC_2013_0322_001

Danielle Page
Head, Cultural Resource Management Branch
Assistant Chief of Staff, Environmental Security
United States Marine Corps
Box 555010
Camp Pendleton, CA 92055-5010

Re: Santa Margarita River Conjunctive Use Project (your 5090, ENV/CRS, February 13, 2013)

Dear Ms. Page:

Thank you for requesting my comments on the above cited undertaking in accordance with Section 106 of the *National Historic Preservation Act of 1966* (16 U.S.C. 470f), as amended, and its implementing regulation found at 36 CFR Part 800. The Santa Margarita River Conjunctive Use Project (SMR CUP) is a joint effort involving the Marine Corps Base Camp Pendleton (MCB Camp Pendleton), Bureau of Reclamation (BUR), and Fallbrook Public Utilities District (FPUD).

The purposes of the SMR CUP are to help meet the water demands of FPUD and MCB Camp Pendleton, to reduce dependence on imported water while maintaining watershed resources, and to improve water supply reliability by managing the yield of the lower Santa Margarita River basin, and perfecting the water rights permits that were assigned to the BUR in 1974. The SMR CUP includes some or all of the following components, which are configured differently for Action Alternatives 1 and Action Alternatives 2:

- (1) Replacement of the existing diversion structure on the SMR;
- (2) Improvements to O'Neill Ditch and headgate;
- (3) Improvements to existing storage and recharge ponds;
- (4) Installation of new production wells, gallery wells, and associated collection system infrastructure;
- (5) Construction or expansion of water treatment facilities;
- (6) Construction of pumping plants and a bi-directional pipeline; and
- (7) Establishment of an open space management zone (OSMZ).

Action Alternatives 1 and 2 have the same general construction methods. New facilities associated with the project would be located in roadways, existing rights-of-way, and other disturbed areas as much as possible to minimize impacts to cultural resources. The direct impact areas for proposed new facilities (e.g., pump stations, groundwater production wells, and treatment facilities) would include the following: a 30-foot perimeter for parking/facility access, a fence surrounding the facility at the edge of the 30-foot perimeter, and 10-foot wide firebreak outside and surrounding the fence line. Construction related activities and temporary disturbance may also occur within a 50-foot wide buffer around these areas. During construction, existing roads would be used to provide access from public streets to staging areas, laydown and storage areas, and work zones. The staging, laydown, and storage areas

would include heavy use recreation areas with a high percentage of bare ground, areas that are currently paved or otherwise disturbed, and road shoulders.

A pedestrian survey of the SMR CUP area was conducted by ASM Affiliates during January 21-30, 2009 and they also conducted a Phase I cultural resources survey of the area in March of 2009. ASM personnel also conducted an investigation of the historic Martin Reservoir at that time. A second survey was conducted by ASM on March 21, 2012 to address changes in the design of the SMR CUP. The survey work completed by ASM personnel covered the locations identified for both SMR CUP action alternatives. The ASM surveys covered a total of 766 acres of the SMR Basin from the Marine Corps Air Station to O'Neill Lake, a 0.34 mile by 100 feet linear stretch of the OSMZ, and the historic Martin Reservoir near the City of Fallbrook. The surveys resulted in the identification of 27 cultural resources within the SMR CUP area, and those resources are summarized in Enclosure 1.

Of the 27 cultural resources identified by MCB Camp Pendleton, it has determined that seven (7) are eligible for listing on the National Register of Historic Places (NRHP), while the remaining 20 are ineligible for listing. After applying the criteria of adverse effect for the SMR CUP, MCB Camp Pendleton has imposed the following conditions to ensure that the proposed undertaking will not directly or indirectly alter the qualifying characteristics of the seven (7) eligible cultural resources (i.e., CA-SDI-10156/12599H, CA-SDI-4421, CA-SDI-12577, CA-SDI-13938, CA-SDI-13985, CA-SDI-13991, and CA-SDI-14005H [segment B]):

1. Avoidance of all historic properties identified within the APE;
2. Archaeological and Native American monitoring of all ground disturbing activities within the APE near historic properties, archaeological sites, or for any drilling or trenching operations within the SMR floodplain;
3. The development of an archaeological monitoring and discovery plan for the SMR CUP;
4. The development of a monitoring and discovery plan (reviewed and approved by the Cultural Resources Section) that will be implemented through a contract independent from the construction contract to ensure that ground disturbing activities within vicinity of any identified cultural resource are properly monitored;
5. Establish a 50 foot buffer of all NRHP eligible resources by a qualified archaeologist and Native American monitor to ensure that the proposed undertaking will not directly or indirectly alter the qualifying characteristics of any NRHP-eligible property;
6. The qualified archaeologist and Native American monitor will be approved by the Cultural Resources Section two weeks prior to the start of ground disturbing activities;
7. The qualified archaeologist is to contact the Cultural Resources Section one week prior to the start of ground disturbing activities; and
8. The submittal of a monitoring report upon completion of the project for review and approval by the Cultural Resources Section, prior to submittal of that report with the California SHPO.

With the imposed conditions listed above, MCB Camp Pendleton has determined that a finding of "No Adverse Effect" for the SMR CUP is appropriate, subject to 36 CFR 800.5(b). MCB Camp Pendleton also requested us to concur with or comment on the following determinations:

1. The following two sites are considered to be eligible for listing on the NRHP (pending completion of a formal evaluation) – CA-SDI-4421 and CA-SDI-13991;

2. The following nine sites have been determined to be ineligible for listing on the NRHP: CA-SDI-10157, CA-SDI-12628, CA-SDI-13942H, CA-SDI-13984, CA-SDI-13987, CA-SDI-13990, CA-SDI-15126, CA-SDI-14381, and Martin Reservoir.
3. For CA-SDI-10158, the Southern portion of Locus G2 has been determined to a non-contributing element of that site.

After reviewing your letter of March 13, 2013, I have the following comments:

- 1) In your letter, you state that you believe CA-SDI-4421 and CA-SDI-13991 to be eligible for listing on the NRHP pending completion of a formal evaluation. I recommend that you treat both sites as being eligible for the purposes of the SMR CUP and ensure that those sites are not affected, either directly or indirectly, by activities associated with the proposed undertaking;
- 2) I concur with your determination that the nine sites identified above are ineligible for listing on the NRHP;
- 3) I concur with your determination that for CA-SDI-10158, the Southern portion of Locus G2 is a non-contributing element of that site;
- 4) A report detailing the monitoring results will be provided to this office upon the conclusion of construction related ground disturbance. I look forward to receiving that report.
- 5) In your letter, you stated that you are consulting with six federally and one non-federally recognized tribal governments, and has notified the public through contacts with the San Diego Archaeological Society in regards to the proposed undertaking.
- 6) If you agree to assume eligibility for the purposes of this undertaking for CA-SDI-4421 and CA-SDI-13991, and conduct the proposed undertaking in accordance with the conditions described above, then I concur that pursuant to 36 CFR Part 800.5(b), a Finding of No Adverse Effect is appropriate for the SMR CUP; and
- 7) Please be advised that under certain circumstances, such as an unanticipated discovery or a change in project description, you may have future responsibilities for this proposed undertaking under 36 CFR Part 800.

Thank you for seeking my comments and considering historic properties as part of your project planning. If you have any questions or concerns, please contact either of the following members of my staff: Ed Carroll at (916) 445-7006 or at e-mail at Ed.Carroll@parks.ca.gov or Duane Marti at (916) 445-7030 or at email at Duane.Marti@parks.ca.gov.

Sincerely,



Carol Roland-Nawi, Ph.D.
State Historic Preservation Officer

Cultural Resources Located Within the SMR CUP area

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
CP SMR CUP 1	A historic culvert that is part of a water conveyance system associated with the percolation ponds just west of Lake O'Neill. Culvert is approximately 30 feet long, 0.18 feet wide, and with a maximum height of 17 feet. The culvert is constructed with cinder blocks and two drainage pipes of heavy corrugated metal	Ineligible	Concurred with determination of ineligible on 09/14/2010 (USMC100224A).
CP SMR CUP 2	A historic culvert that is part of a water conveyance system associated with the percolation ponds just west of Lake O'Neill. Culvert is approximately 13 feet by 18 feet, with a height of 7 feet. The culvert is constructed with cinder blocks and a single 3-foot diameter pipe of heavy corrugated metal.	Ineligible	Concurred with determination of ineligible on 09/14/2010 (USMC100224A).
CP SMR CUP 3	A historic culvert that is part of a water conveyance system associated with the percolation ponds just west of Lake O'Neill. Culvert is approximately 60 feet by 10 feet, with a height of 9 feet. The north and south ends of the culvert features a corrugated metal pipe extending into the canal.	Ineligible	Concurred with determination of ineligible on 09/14/2010 (USMC100224A).
CP SMR CUP 4 (O'Neill Ditch)	A historic culvert that is part of a water conveyance system associated with the percolation ponds just west of Lake O'Neill. The culvert is a 1.4 kilometer long earthen ditch that extended from CP SMR CUP 2 southward to the Lake O'Neill Dam. The ditch varies between 4 and 6 meters in width and is approximately 2 meters deep.	Ineligible	Concurred with determination of ineligible on 09/14/2010 (USMC100224A).
CA-SDI-4421	Located along the Santa Margarita River (SMR), the site was recorded originally in 1975 as a bedrock milling site and consisted of a cluster of flat bedrock outcrops with 38 mortars, 20 basins, and 2 isolated slicks. The site was revisited in 1995, but was inaccessible because it was inundated by the SMR. Revisited on March 30, 2011 and it was noted that the bedrock milling had been affected by erosion associated with the rise and fall of the SMR.	The site has not been evaluated formally for NRHP eligibility. USMC considers the site to be eligible pending completion of a formal evaluation.	In the current letter, USMC requested OHP to comment on the status of the site.

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
CA-SDI-10157	Located on the SMR flood plain, the site was recorded in 1984 as a sparse shell scatter that may be associated with the historic village of <i>Topomai</i> (CA-SDI-10156/12599). The site is 70 meters by 30 meters and consists of <i>chione</i> and <i>donax</i> shell. No additional artifacts were found within the site area. The site was tested in 1995 and only a small amount of surface artifacts were found and no subsurface features or deposits were encountered during the test excavations.	Based on the results of the testing, it was determined to be ineligible.	In the current letter, USMC requested OHP to concur with the determination of ineligible.
CA-SDI-10156 and CA-SDI-12599H	This site is located on the SMR floodplain, approximately 2.2 kilometers southwest of O'Neill Lake. It consists of both the prehistoric/ethnohistoric Luiseño village of <i>Topomai</i> (CA-SDI-10156) and the historic Santa Margarita Ranch Complex (CA-SDI-12599H).	Eligible	Concurred with determination of eligible on 04/22/2010 (USMC100209B).
CA-SDI-12570	The site is located on a terrace edge on the north side of the SMR and west of a seasonal drainage. Site was recorded originally in 1992 as a very small temporary camp. Site was revisited in 1995, but could not be relocated. Site was revisited in 2001 and identified as a low-density flake scatter. Site was tested in 2009, and based on the testing; it was determined to be ineligible.	Ineligible	Concurred with determination of ineligible on 04/22/2010 (USMC100209B).
CA-SDI-12571	The site is located on a small knoll approximately 800 meters west of the SMR. The site was recorded originally in 1992 and described as an artifact scatter containing a core, a unifacial cobble tool, 3 pieces of debitage, and fire affected rock (FAR). It was noted that a road traversed the site and minor grading had resulted possibly in the destruction and displacement of portions of the site. In 2009 and 2011, the site was revisited and the surveyors were unable to locate any of the previously identified artifacts in the site area.	Ineligible	Concurred with determination of ineligible on 04/22/2010 (USMC100209B).

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
CA-SDI-12577	The site is located on the northeast side of the Ysidora Basin on a low graded area. The site was recorded originally in 1992 as a dense artifact scatter with a disturbed, but intact subsurface component. It was tested in 1995 and based on the artifacts recovered and radiocarbon dating, determined to be an Early Archaic site.	Eligible	Concurred with determination of eligible on 03/03/1997 (USMC961217A).
CA-SDI-12628	<p>a) The site is located on the margin of an alluvial flood plain north a road and immediately south of the SMR. The site was recorded originally in 1992 as a large shell midden with a small amount of cultural material, possibly representing a habitation site. Was tested in 1995 and three loci (A, B, and C) were identified. Site was determined to be eligible.</p> <p>b) Site was tested and excavated again in 1998 and 2002 in support of two subsequent projects. While the site was originally evaluated to be eligible, subsequent impacts to the site through subsequent construction activities have disturbed and damaged it, resulting in a lack of integrity and research potential. USMC now believes that the site is ineligible.</p>	<p>a) Eligible b) Ineligible</p>	<p>a) Concurred with determination of eligible on 03/03/1997 (USMC961217A). b) In the current letter, USMC requested OHP to concur with the determination of ineligible.</p>
CA-SDI-13938	The site is located on an alluvial floodplain 50 meters west of the SMR. The site was recorded originally in 1995 as an artifact scatter containing flaked stone artifacts, groundstone implements, FAR, and one <i>argopecten</i> shell. During the 2009 survey by ASM, a larger scatter of shell (approximately 10-20 pieces) were identified in the site area, but none of the lithic artifacts recorded in 1995 were relocated. Site was determined to be eligible.	Eligible	Concurred with determination of eligible on 04/22/2010 (USMC100209B).
CA-SDI-13941H	The site is located on a terrace 40 meters south of a chapel along the eastern portion of the Chappo cantonment area. The site contains a historic water trough made of poured concrete and was recorded in 1995. The trough measures 20 feet by 60 inches by 16 inches and has an inscription of "No. 9 June 22 35" on its eastern side. In 2001, trough was	Ineligible	Concurred with determination of ineligible on 04/22/2010 (USMC100209B).

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
	revisited by ASM, who noted similarities between it and others used at MCB Camp Pendleton as laundry facilities.		
CA-SDI-13942H	This site is located on a dirt road 50 meters south of a concrete building at the western end of the Chappo area. The site was recorded in 1995 and described as a sparse historic trash scatter. The site measures 10 meters by 25 meters, and includes metal, ceramics, and glass artifacts. Site was tested in 2010 with 7 shovel scrapes and 14 shovel test pits, which resulted in recovery of no additional cultural resources. Subsequent road maintenance activities have disturbed the site.	Ineligible	In the current letter, USMC requested OHP to concur with the determination of ineligible.
CA-SDI-13981H	The O'Neill Dam which is located at the southwestern end of Lake O'Neill. The dam was recorded originally in 1995 and is 1,400 feet by 40 feet with a height of 10 feet. The dam was originally built in 1883, but it has been altered and refurbished multiple times, compromising its historic integrity.	Ineligible	Concurred with determination of ineligible on 04/22/2010 (USMC100209B).
CA-SDI-13984	The site is located on a terrace approximately 110 meters east of the SMR. It was recorded originally in 1995 and described as a bedrock milling site consisting of 4 slicks, 4 mortars, and 1 unknown triangular shaped milling feature with 2 pestles. The site was tested in 2005 by e2M with 8 shovel test pits. No artifacts were recovered.	Ineligible	In the current letter, USMC requested OHP to concur with the determination of ineligible.
CA-SDI-13985	The site is located on a terrace above and approximately 140 meters east of the SMR. It was recorded originally in 1995 and described as a bedrock milling site consisting of 6 milling features within a cluster of bedrock outcrops. The milling features contained 15 milling surfaces, including mortars, basins, slicks, and cupules.	Eligible	Concurred with determination of eligible on 04/22/2010 (USMC100209B).
CA-SDI-13987	The site is located in the flood plain on the north side of SMR, approximately 400 meters south of one road and 600 meters of the intersection of two other roads. The site was recorded originally in 1995 and described as a low density artifact scatter measuring 50 meters by 140 meters. Two	Ineligible	In the current letter, USMC requested OHP to concur with the determination of ineligible.

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
	<p>core/hammerstones, 2 ceramic sherds, 1 metate fragment, 7 flakes, a sawed bone, and FAR were identified. The site was tested in 1997 with 10 shovel test pits. Only five prehistoric pieces of debitage were located, while historic materials, including 102 pieces of cow bones were located. It was concluded that the site was a redeposition of eroded material from upstream, and no substantial intact deposits were located and no diagnostic artifacts were recovered.</p>		
CA-SDI-13990	<p>The site is located directly below a high terrace in the SMR flood plain. The site was recorded originally in 1995 and described as a sparse artifact scatter that included 3 manos, 3 mano fragments, 3 metavolcanic flakes, a chalcedony flake, and several groundstone fragments. It was noted that the site had been disturbed by grading and maintenance activities associated with a dirt road that traversed the site. The site was tested in 2008 with 33 shovel test pits. No cultural material was recovered either on the surface or from the STPs.</p>	Ineligible	<p>In the current letter, USMC requested OHP to concur with the determination of ineligible.</p>
CA-SDI-13991	<p>The site is located on the highest terrace within the SMR floodplain and is traversed by a road. The site was recorded originally in 1995 and described as a sparse lithic scatter measuring 40 meters by 25 meters. Artifacts included 1 metate fragment, 1 mano fragment, 1 core tool, 1 hammerstone, 1 flake, and 20 pieces of FAR.</p>	<p>The site has not been evaluated formally for NRHP eligibility. USMC considers the site to be eligible pending completion of a formal evaluation.</p>	<p>In the current letter, USMC requested OHP to comment on the status of the site.</p>
CA-SDI-13996H	<p>The site is located on a terrace above the SMR, immediately west of a road. The site was recorded originally in 1995 and described as a scatter of historic debris, including glass, ceramics, metal, brick, and concrete. The site measures 80 meters by 40 meters, and maybe be associated with a wooden fence corners 20 meters south of the site, and some concrete slabs, which may have been the remains of a building foundation.</p>	Ineligible	<p>Concurred with determination of ineligible on 04/22/2010 (USMC100209B).</p>

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
CA-SDI-14060	<p>The site is located between a road and CA-SDI-14005H on the east bank of the SMR. The site was recorded originally in 1995 and described as 175 meters by 105 meters lithic scatter with a moderately dense midden of <i>donax</i>, <i>choine</i>, and <i>argopecten</i> shells. The site was tested in 1995 with 8 shovel tests pits and 3 test excavation units, which recovered only a sparse amount of marine shell and faunal material mixed with historic debris. Analysis of the soil matrix indicated that the entire excavated portion of the site was entirely composed on artificial fill, and the small amount of sparsely distributed cultural material was determined to be secondary deposits.</p> <p>In 1999 during archaeological monitoring for a construction project, FAR was discovered in the site area. The site was again tested in 1999 with 11 mechanical trenches, 14 shovel test pits, and 3 test excavation units. The testing recovered low density deposits of lithic debitage, shell, and intrusive historic materials.</p>	<p>Ineligible</p> <p>After the testing in 1999, it was determined that the previous ineligibility determination was still valid.</p>	<p>Concurred with determination of ineligible on 03/03/1997 (USMC961217A).</p>
CA-SDI-15126	<p>The site is located on a berm within the SMR basin on the north side of a road approximately 200 meters northeast of CA-SDI-12628 (described earlier in this enclosure). The site was recorded originally in 1992 as a lithic scatter measuring 10 meters by 30 meters. The site was tested with 4 shovel test pits, 4 test excavation units, and 3 mechanical trenches, which recovered a moderate density of <i>donax</i>, scallop, and freshwater mussel shell, lithic debitage, and flaked stone tool fragments.</p>	<p>Ineligible</p>	<p>In the current letter, USMC requested OHP to concur with the determination of ineligible.</p>
CA-SDI-10158	<p>The site is located 175 meters south of an ammunition bunker and is traversed by Maverick Road. The site measures 370 meters by 150 meters, and was recorded originally in 1996 and described as a temporary prehistoric camp or habilitation site. The site is composed of 8 loci (Locus A, B, C, D, E, F, G1, and G2). Each locus contains a variety of milling features including grinding</p>	<p>Southern portion of Locus G2 is a non-contributing element of CA-SDI-10158.</p>	<p>In the current letter, USMC requested OHP to comment on the status of the southern portion of Locus G2.</p>

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
	<p>slicks, mortars, proto-mortar, and basins. Artifacts found associated with the milling features included flakes, debitage, mano fragments, and metate fragments. The site was determined to be eligible in 2006, but that determination was never reviewed by OHP.</p> <p>The southern portion of Locus G2 would be affected by the SMR CUP. The southern portion of Locus G2 was tested in 2006 to determine if it contributed to the eligibility of the overall site. On the surface, only a small portion (approximately 20 meters by 10 meters) appeared to be intact. Twenty four shovel test pits and 3 test excavation units were excavated, which recovered 53 chipped stone flakes and debitage, 4 shell fragments, a piece of charcoal, and various metal and glass bottle fragments. Due to a lack of diagnostic artifacts and the observed low site integrity of the southern portion of Locus G2, it was determined that the southern portion of Locus G2 was a non-contributing element of CA-SDI-10158</p>		
CA-SDI-14005H	The site is a portion of the Atchison, Topeka, and Santa Fe Railroad. It was recorded originally in 1995 and evaluated for eligibility in 1997. It was determined that the site was eligible under Criteria A, B, and D.	Eligible	Concurred with determination of eligible on 03/03/1997 (USMC961217A).
CA-SDI-14381	The site is located on either side of Ammunition Road near Building 442 at Naval Weapons Station Seal Beach, Fallbrook Annex. The site was recorded originally in 1996 and described as a temporary prehistoric camp or habitation site that measured 60 meters by 150 meters. The site is composed of two loci (Locus A and B) with millstone features and associated lithic scatters. At the time of the initial survey, Locus A and B contained 8 mano fragments, 2 hammerstones, 3 flakes, 5 pieces of debitage, a discoidal gaming piece, and an obsidian desert side-notched projectile point. The site was tested in 2006 and it was noted that the condition of the site had deteriorated,	Ineligible	In the current letter, USMC requested OHP to concur with the determination of ineligible.

Site Identification	Description of Resource	USMC's determination of eligibility for NRHP	OHP's comments and/or concurrence
	particularly around Locus A, due to erosion and flooding from a nearby arroyo. Seventeen shovel test pits and 2 test excavation units were excavated, resulting in 3 flakes and 1 piece of debitage. As a result of the low site integrity and lack of diagnostic artifacts, the site was determined to be ineligible.		
Martin Reservoir	The Martin Reservoir was constructed for the FPU D as a Public Works Administration project between February and June 1939. It is a poured-concrete structure with an approximate height of 13 feet and a diameter of 120 feet. The reservoir has a cover supported by wooden truss framing that extends from the top of the concrete tank to the rooftop cover and around the circumference of the tank. A ventilating mesh covers the wooden truss framing, and two pipes exist at the southern end of the reservoir. Located along the northern side of the reservoir is a 17 feet by 11 feet wooden lean-to shed that was a later addition. The reservoir was evaluated in 2009 and it was determined that it was not eligible under any of the four criteria.	Ineligible	In the current letter, USMC requested OHP to concur with the determination of ineligible.

Summary of eligibility determinations

<p>ELIGIBLE (seven sites)</p> <p>The following five sites have been determined eligible by USMC and previously OHP has reviewed and concurred with those determinations: CA-SDI-10156/12599H, CA-SDI-12577, CA-SDI-13938, CA-SDI-13985, and CA-SDI-14005H.</p> <p>The following two sites have been considered to be eligible by USMC (pending completion of a formal evaluation) and in the current letter they have requested OHP to comment on those considerations: CA-SDI-4421 and CA-SDI-13991.</p>
<p>INELIGIBLE (twenty sites)</p> <p>The following ten sites have been determined ineligible by USMC and previously OHP has reviewed and concurred with those determinations: CP SMR CUP 1, CP SMR CUP 2, CP SMR CUP 3, CP SMR CUP 4 (O'Neill Ditch), CA-SDI-12570, CA-SDI-12571, CA-SDI-13941H, CA-SDI-13981H, CA-SDI-13996H, and CA-SDI-14060,</p>

The following **nine** sites have been determined ineligible by USMC and in the current letter they have requested OHP to concur with those determinations: CA-SDI-10157, CA-SDI-12628, CA-SDI-13942H, CA-SDI-13984, CA-SDI-13987, CA-SDI-13990, CA-SDI-15126, CA-SDI-14381, and Martin Reservoir.

The following **one** site has been determined by USMC to be a non-contributing element of CA-SDI-10158 and in the current letter they have requested OHP to comment on that determination: CA-SDI-10158 (Southern portion of Locus G2).