Appendix A

Air Quality/Greenhouse Gases Emissions Assessment

Road Construction Emissions Model, Version 9.0.0

Daily Emission Estimates for -> Old Road Bridge

Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	Total PM10 (lbs/day)	Exhaust PM10 (lbs/day)	Fugitive Dust PM10 (lbs/day)	Total PM2.5 (lbs/day)	Exhaust PM2.5 (lbs/day)	Fugitive Dust PM2.5 (lbs/day)	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.56	6.39	5.27	2.13	0.33	1.80	0.63	0.26	0.37	0.01	1,404.60	0.21	0.07	1,431.61
Grading/Excavation	0.94	10.92	9.10	2.35	0.55	1.80	0.84	0.47	0.37	0.02	2,026.90	0.40	0.08	2,061.36
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	1.20	10.97	11.89	0.62	0.62	0.00	0.52	0.52	0.00	0.03	2,959.68	0.26	0.22	3,030.72
Maximum (pounds/day)	1.20	10.97	11.89	2.35	0.62	1.80	0.84	0.52	0.37	0.03	2,959.68	0.40	0.22	3,030.72
Total (tons/construction project)	0.07	0.64	0.65	0.07	0.04	0.03	0.04	0.03	0.01	0.00	157.77	0.02	0.01	161.30

Notes:

Project Start Year ->	2021
Project Length (months) ->	6
Total Project Area (acres) ->	0
Maximum Area Disturbed/Day (acres) ->	0
Water Truck Used? ->	Yes

	Total Material Imported/Exported Volume (yd^3/day)		Daily VMT (miles/day)			
Phase	Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck
Grubbing/Land Clearing	180	0	45	0	600	40
Grading/Excavation	0	0	50	0	600	40
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0
Paving	0	0	0	300	600	0

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

Total Emission Estimates by Phase for -> Old Road Bridge

Project Phases (Tons for all except CO2e. Metric tonnes for CO2e)	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)
Grubbing/Land Clearing	0.00	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.00	3.57
Grading/Excavation	0.02	0.18	0.15	0.04	0.01	0.03	0.01	0.01	0.01	0.00	33.44	0.01	0.00	30.86
Drainage/Utilities/Sub-Grade	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.05	0.45	0.48	0.03	0.03	0.00	0.02	0.02	0.00	0.00	120.46	0.01	0.01	111.90
Maximum (tons/phase)	0.05	0.45	0.48	0.04	0.03	0.03	0.02	0.02	0.01	0.00	120.46	0.01	0.01	111.90
Total (tons/construction project)	0.07	0.64	0.65	0.07	0.04	0.03	0.04	0.03	0.01	0.00	157.77	0.02	0.01	146.33

PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.

CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1 , 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.

The CO2e emissions are reported as metric tons per phase.

Appendix B

Natural Environment Study

Appendix B1

Natural Environment Study Addendum

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PASADENA, CALIFORNIA 91101
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August 28, 2020 11125.05

Albert Anidi
Supervising Civil Engineering Asst.
Los Angeles County Public Works
900 S Fremont Ave
Alhambra, CA 91803

Subject: *Addendum to the NES Report for The Old Road Over Castaic Creek Project Located in the Val Verde Area of Unincorporated Los Angeles County, California*

Dear Mr. Anidi:

This letter report serves as an addendum to the previously approved Natural Environment Study (NES) report prepared for the Los Angeles County Public Works (Public Works) for submittal to the California Department of Transportation (Caltrans) for the proposed The Old Road Over Castaic Creek Project (project) located in the Val Verde area of unincorporated Los Angeles County, California (Attachment A: Figure 1). The Biological Study Area (BSA) for the project included the proposed temporary and permanent impact areas for the project including access areas adjacent to and beneath The Old Road bridge (temporary), and the existing bridge support piles that will be retrofitted (permanent). The proposed staging areas for the project were not originally included in the approved NES and therefore, will be addressed in this addendum in order to analyze all project-related impacts. An updated project description, changes to the NES, summary of impacts, and conclusion of any additional minimization and/or mitigation measures are included herein.

Project Description Updates

The proposed staging areas for the project are located to the north and south of the existing The Old Road bridge on the existing dirt shoulders of The Old Road, on either side of Castaic Creek (Attachment A: Figure 2). The proposed Staging Area A (0.22 acre) and Staging Area B (0.38 acre) occur within an existing graded area that is currently used by vehicles for pulling off the pavement and as a service lane for vehicles that have broken down. No grading or removal of vegetation would need to occur in order to prepare the area for construction vehicle and equipment staging. Temporary construction fencing may be required in order to delineate the limits of the staging areas and prevent any unauthorized encroachment into adjacent drainages and Castaic Creek.

Additionally, new footings for the bridge would be installed with additional grouting of the soil under the footing; however, the footings will be underground with the top of the footing being approximately 4.5 feet below the surface and the bottom of the footing approximately 7 feet below the surface. As such, no permanent impacts would occur within the surface of Castaic Creek or other areas surrounding the bridge.

Lastly, to retrofit the existing concrete foundation, construction activities would include approximately 7 feet of soil excavation around the existing concrete pile extensions at each pier, injection of grout under the proposed footing pad to a depth of approximately 10 feet below the bottom of the footing, installation of micro piles, construction of the footing and the infill wall, and backfilling and compacting the excavated soil.

Changes to the NES

While the NES did address all biological resources that occur within the BSA, reported the results of focused surveys for special-status species, analyzed project-related temporary and permanent impacts, and prescribed mitigation to minimize impacts, it did not include a discussion of the two staging areas that would result in temporary impacts during the construction phase of the project. The project description has been updated to include a discussion of the staging areas. The BSA included a 500-foot buffer around the bridge and therefore, the biological resources documented in the NES included the staging areas. Temporary impacts related to the use of the staging areas during the construction phase of the project will occur entirely to disturbed habitat and developed land associated with the right-of-way (ROW) for The Old Road (Attachment A: Figure 3). Disturbed habitat within the BSA is characterized by compacted bare ground that was previously graded and does not contain any native vegetation. Only scattered non-native grasses and ruderal (weedy) species occur within disturbed habitat areas. A summary of resources found during the surveys conducted in 2019 can be found in Attachment A: Figure 4. The vegetation communities within the staging areas do not provide suitable habitat to support any special-status plant or wildlife species, particularly special-status species that were the subject of focused surveys conducted for the project in 2019. However, ground-nesting bird species could nest within the staging areas during the avian nesting season of February through August.

Additionally, consultation with the United States Fish and Wildlife Service (USFWS) occurred in August 2020 to discuss potential species of concern for the project. Dudek biologist Tommy Molioo explained the results of the focused surveys conducted on the BSA and the proposed project impacts. A Section 7 letter of determination was prepared and delivered to USFWS on behalf of Caltrans.

Summary of Impacts

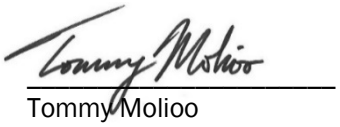
The staging areas will result in approximately 0.60 acre of temporary impacts during the construction phase of the project to disturbed habitat and developed land associated with the ROW for The Old Road. These temporary impacts are associated with vehicle and equipment access and staging for construction personnel and project equipment lay-down areas. Temporary impacts to disturbed habitat and developed land are not considered significant as these areas do not support native vegetation, and as a result do not support special-status species that could occur in the region. None of the species evaluated in the NES have a potential to occur within the proposed staging areas.

Conclusions

Project-related temporary impacts to disturbed habitat and developed areas are not considered significant and do not require any mitigation to reduce impacts. Additionally, no special-status species have the potential to occur within the proposed staging areas and therefore no additional impacts to species, beyond those analyzed in the NES report, will occur through addition of the staging areas to the project analysis.

Should you have any comments or questions regarding the results included in this addendum please feel free to contact me at tmolioo@dudek.com or 949.212.9404.

Sincerely,

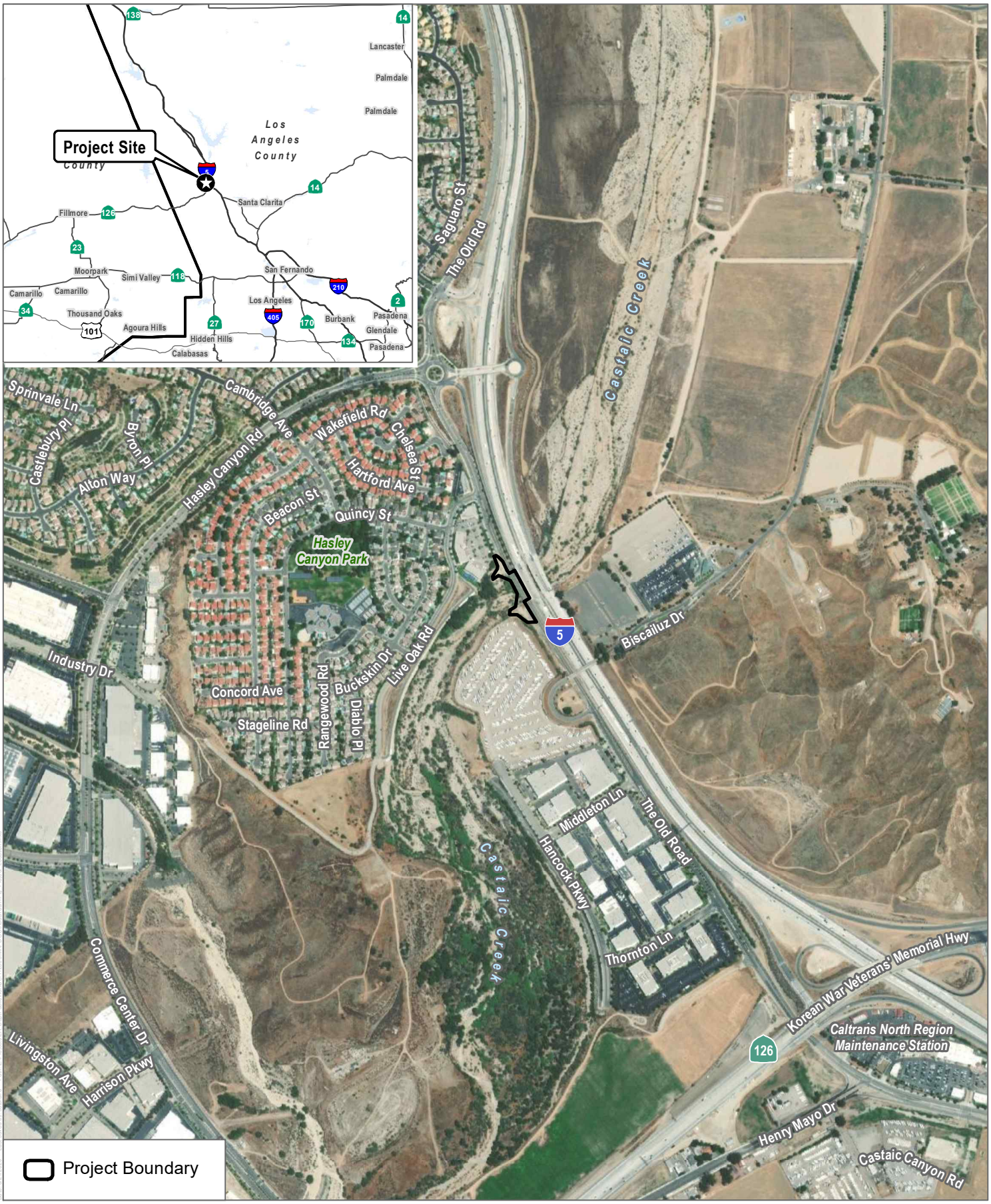


Tommy Molioo
Senior Biologist

Att.: A: Figures
cc: Reyna Soriano, LADPW
Tamseel Mir, Dudek

Attachment A

Figures



SOURCE: Esri, Digital Globe 2017; Open Street Map 2019

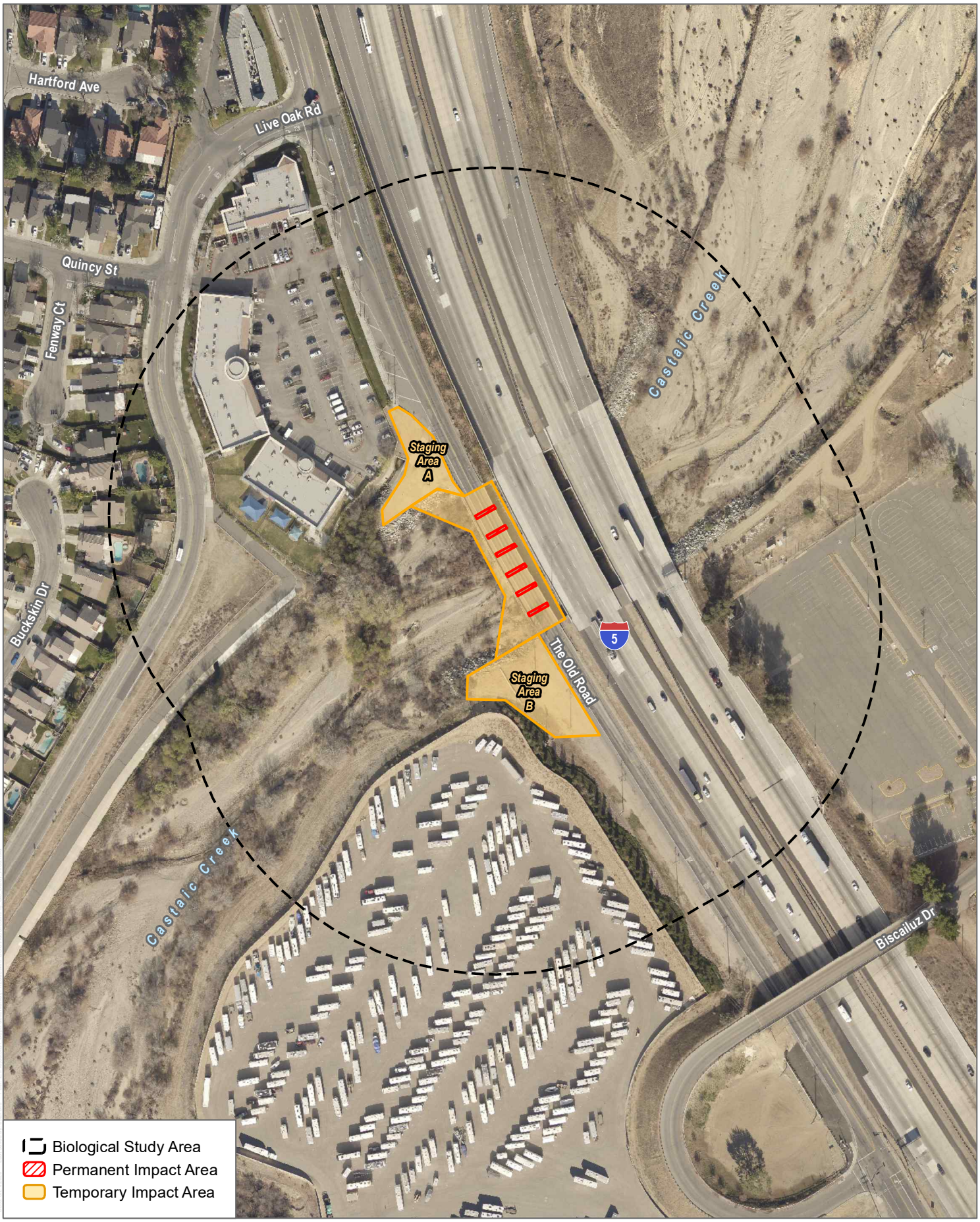
DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

The Old Road Bridge Over Castaic Creek Project



SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 100 200 Feet

FIGURE 2

Biological Study Area

The Old Road Bridge Over Castaic Creek Project



SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 87.5 175 Feet

FIGURE 3

Vegetation

The Old Road Bridge Over Castaic Creek Project



SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 100 200 Feet

FIGURE 4

Biological Resources

The Old Road Bridge Over Castaic Creek Project

Appendix B2

Natural Environment Study Report

The Old Road Over Castaic Creek Project ***NES***



Natural Environment Study

Discussions of Habitat Assessment, Focused Species Surveys, and Wetland Studies

Val Verde Area
Unincorporated Los Angeles County
District No. 7

Federal Project No.: BRLSZD-5953(650)

January 2020

Caltrans
CALIFORNIA DEPARTMENT OF TRANSPORTATION

Natural Environment Study

STATE OF CALIFORNIA
Department of Transportation

LOS ANGELES COUNTY
Department of Public Works

Prepared By: _____ Date: _____

Tommy Molioo, Lead Project Biologist
(949) 919-8308
Dudek 38 North Marengo Avenue, Pasadena, CA 91101
Consultant

Prepared By: _____ Date: _____

Title
Phone Number
Office Name and address
Authorized Local Agency Representative

Recommended
for Approval By: _____ Date: _____

District Biologist:
Phone Number
Office Name
District/Region

Approved By: _____ Date: _____

District Environmental Branch Chief:
Phone Number
Office Name
District/Region

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Summary

This Natural Environment Study (NES) report was prepared for the County of Los Angeles Department of Public Works (LADPW) for the proposed The Old Road Over Castaic Creek Project (proposed project). The project area for this NES consists of the portion of The Old Road Over Castaic Creek that spans over Castaic Creek in the Val Verde area of unincorporated Los Angeles County, California. A Biological Study Area (BSA) was established around The Old Road Bridge by placing a 500-foot radius around the bridge to account for biological resources within an approximately 27.2-acre area. The BSA was surveyed to document existing conditions and determine the potential for project-related impacts to occur.

The BSA is comprised of developed land associated with existing right-of-way (ROW) for The Old Road Over Castaic Creek and Interstate 5, commercial and residential development, culverts, levees, and parking lots. The BSA also contains undeveloped land characterized by native and non-native vegetation communities associated with Castaic Creek. The majority of the BSA contains suitable habitat to support several federal- and State-listed plant and wildlife species. Additionally, the BSA contains a jurisdictional water of the U.S. and State as The Old Road Over Castaic Creek spans over the earthen-bottom Castaic Creek (an ephemeral stream) that conveys scheduled dam release flows from Castaic Lake, as well as stormwater flows, downstream towards the Santa Clara River, which is a traditionally navigable waterway (TNW) that directly drains into the Pacific Ocean. The proposed project will access Castaic Creek to conduct project Retrofit activities on The Old Road Over Castaic Creek. Therefore, regulatory agency permitting would be required for the proposed project in order to comply with Sections 401 and 404 of the Clean Water Act, and Section 1600 et seq. of California Fish and Game Code (CFG Code).

Based on the review of current state and federal databases, including the California Natural Diversity Database (CNDDB) and U.S. Fish and Wildlife Service (USFWS) Information Planning and Conservation (IPaC) System, there are several special-status plant species and wildlife species that have a moderate or higher potential to occur in the BSA. These species include: least Bell's vireo (*Vireo bellii pusillus*), southwestern willow flycatcher (*Empidonax traillii extimus*), and arroyo toad (*Anaxyrus californicus*), as well as several special-status bats and special-status plant species. In addition, the BSA is located within USFWS-designated critical habitat for the arroyo toad, a federally endangered species that could use the portions of Castaic Creek within the BSA for a wildlife movement corridor. One special-status wildlife species, yellow warbler (*Setophaga petechia*), was observed on the BSA during focused surveys for least Bell's vireo conducted by Dudek in spring and summer 2019. One special-status plant species, white rabbit-tobacco (*Pseudognaphalium leucocephalum*), was observed within the BSA during the focused special-status plant surveys conducted in the spring and summer of 2019. Avoidance and minimization measures will be implemented during project construction to minimize any potential impact to these species.

The BSA also contains shrub and tree vegetation that could provide suitable nesting habitat for resident and migratory bird species protected under the Migratory Bird Treaty Act (MBTA) and CFG Code. As such, avoidance and minimization measures would be required to minimize impacts to migratory birds, if construction activities take place during the general avian nesting season from February 1 through September 1.

The BSA does not reside within any approved or proposed Habitat Conservation Plan (HCPs) or Natural Community Conservation Plans (NCCPs), and no local policies or ordinances pertaining to tree removal or other protection of biological resources will be impacted by the proposed project.

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Acronyms and Abbreviations

Acronym/Abbreviation	Definition
AMSL	above mean sea level
BLM	Bureau of Land Management
BMPs	best management practices
BSA	Biological Study Area
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFG	California Fish and Game
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CRA	Coastal Resource Area
CRPR	California Rare Plant Rank
CWA	Clean Water Act
FC	Federal Candidate
FE	Federally Endangered
FESA	Federal Endangered Species Act
FP	fully protected species
FT	Federally Threatened
General Plan	County General Plan 2035
HCP	Habitat Conservation Plan
HUC	Hydrologic Unit Code
IPaC	Information Planning and Conservation
LACFCD	Los Angeles County Flood Control District
LADPW	Los Angeles Department of Public Works
MBTA	Migratory Bird Treaty Act
MCV2	Manual of California Vegetation, Second Edition
NCCP	Natural Community Conservation Plan
NEPA	National Environmental Policy Act
NES	Natural Environment Study
NMFS	National Marine Fisheries Service
NABA	North American Butterfly Association
NPES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
OHWM	ordinary high water mark
PST	Proposed State Threatened
ROW	right-of-way
RPW	Relatively Permanent Water
RWQCB	Regional Water Quality Control Board
SAS	Santa Ana suckers
SE	State Endangered
SEA	Significant Ecological Area
SEA 23	Santa Clara River SEA
SR	State Rare

SSC	California Species of Special Concern
ST	State Threatened
SWPPP	Storm Water Pollution Prevention Plan
TNW	traditionally navigable waterway
USACE	U.S. Army Corps of Engineers
USDA	U.S. Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UTS	unarmored threespine stickleback

Chapter 1 – Introduction

This NES report contains the findings of Dudek's habitat assessment, focused surveys, and a delineation of potential jurisdictional waters in the Val Verde Area of unincorporated Los Angeles County. The purpose and need of the proposed project is to conduct necessary seismic retrofit on the existing The Old Road Bridge that spans over Castaic Creek in order to maintain proper function and use of the bridge. The habitat assessment was conducted by Dudek biologist Tommy Molioo on February 26, 2019 to document baseline conditions, and to identify special-status species and natural communities of special concern potentially occurring within the BSA that could pose a constraint to implementation of the proposed project.

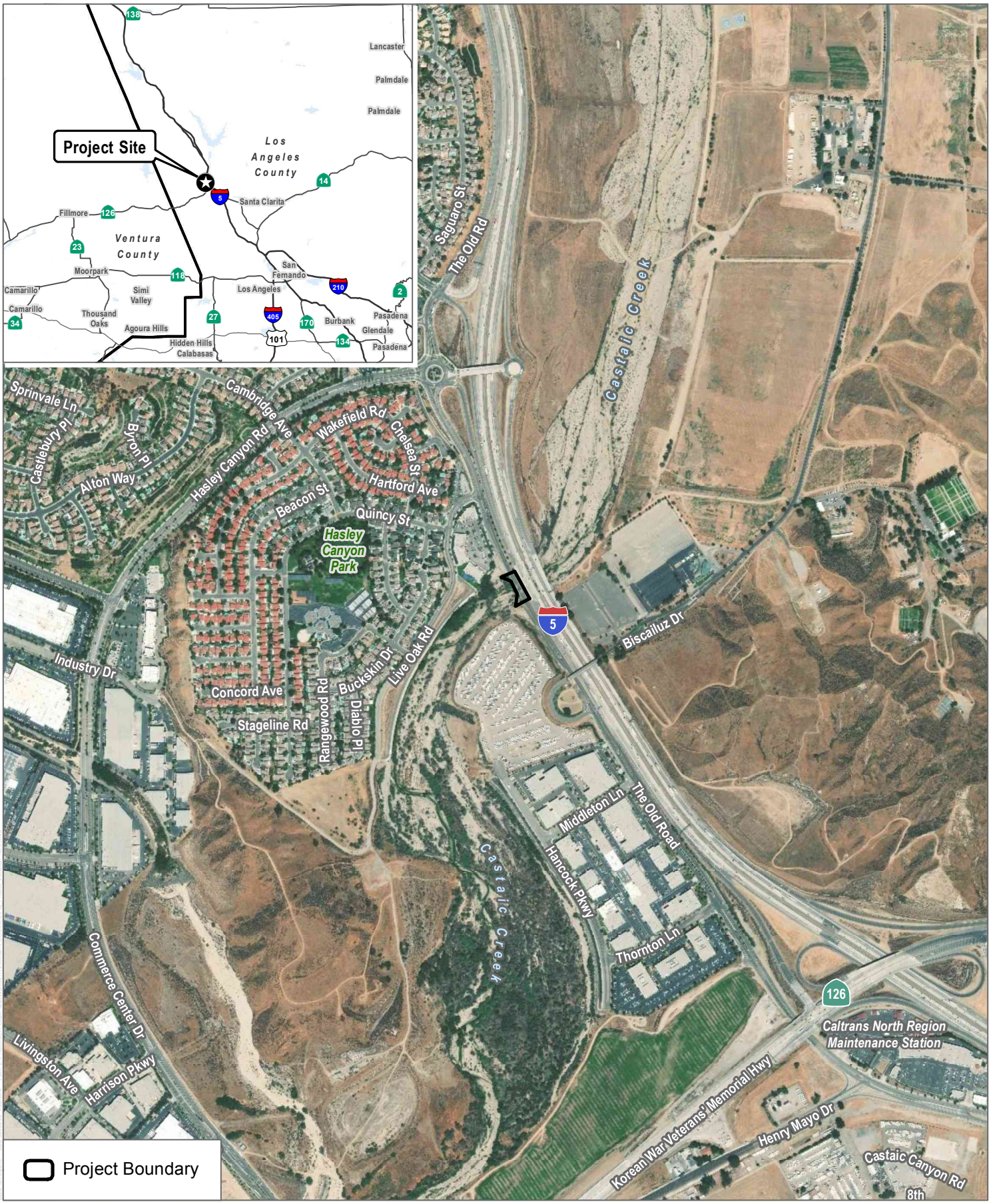
Project History

The existing concrete bridge was constructed in 1945, and is approximately 247 feet long and 35 feet wide. The existing bridge is comprised of seven spans suspended above Castaic Creek. Under existing conditions, the bridge is supported on 16-inch square, precast reinforced concrete piles. The piles are 35 feet long at the bents and 20 feet long at the abutments. The ground surface elevation of the creek bed, at the project site, is at an average elevation of approximately 1,020 feet above mean sea level (AMSL). The creek banks are lined with heavy rock. The existing approach embankments are at an approximate surface elevation of 1,035 feet AMSL.

Project Description

The proposed project would involve the seismic retrofitting of the existing bridge to bring it into conformance with current seismic standards, specifically with the Caltrans Bridge Design Specification and Caltrans Seismic Design Criteria. The project is being proposed by LADPW because the existing bridge support piles are in an advanced state of cracking and strength decline. As a result, the bridge is not equipped to withstand seismic activity, and is therefore considered a safety hazard. The proposed seismic retrofit would include removal and repair of unsound concrete at the pile extensions; adding 7-inch diameter steel micro-piles (typically by drilling), construction of foundations and infill walls at the piers; and the construction of seat extenders and shear keys at the bridge abutments and piers. Construction activities will include soil excavation (up to 12 feet in depth) from within the shoring system surrounding the proposed footings, or soil excavation on a 1:1 slope in lieu of or in combination with the installation of the shoring system due to low overhead clearance under the bridge; injection grouting under the footing pad (to a 5 feet in depth); concrete work for footings, infill walls, and catcher blocks/seat extenders; and backfill and compaction of soil removed from within the shoring system. All work would be performed within the existing right-of-way; however, temporary construction easements along The Old Road Over Castaic Creek will be necessary.

The proposed project is located in the community of Val Verde within an unincorporated portion of the County of Los Angeles (Figure 1), within the *Newhall* U.S. Geological Survey (USGS) 7.5-minute quadrangle in Section 12 of Township 4 North Range 17 West. The area surrounding The Old Road Over Castaic Creek is largely developed or disturbed with existing land uses comprised of development and disturbed habitat associated with existing ROWs, as well as residential, commercial, and government uses; however, also includes land covers and vegetation communities associated with the Castaic Creek channel.



SOURCE: Esri, Digital Globe 2017; Open Street Map 2019

DUDEK

0 500 1,000 Feet

FIGURE 1

Project Location

The Old Road Over Castaic Creek Project

Chapter 2 – Study Methods

A BSA was established around the proposed project (Figure 2), totaling 27.2 acres, to document existing conditions and determine the potential for project-related impacts to occur. Data regarding biological and jurisdictional resources present within the BSA were obtained through a review of pertinent literature and field reconnaissance, and impacts to these resources were analyzed pursuant to relevant regulatory requirements, described in detail below.

Regulatory Requirements

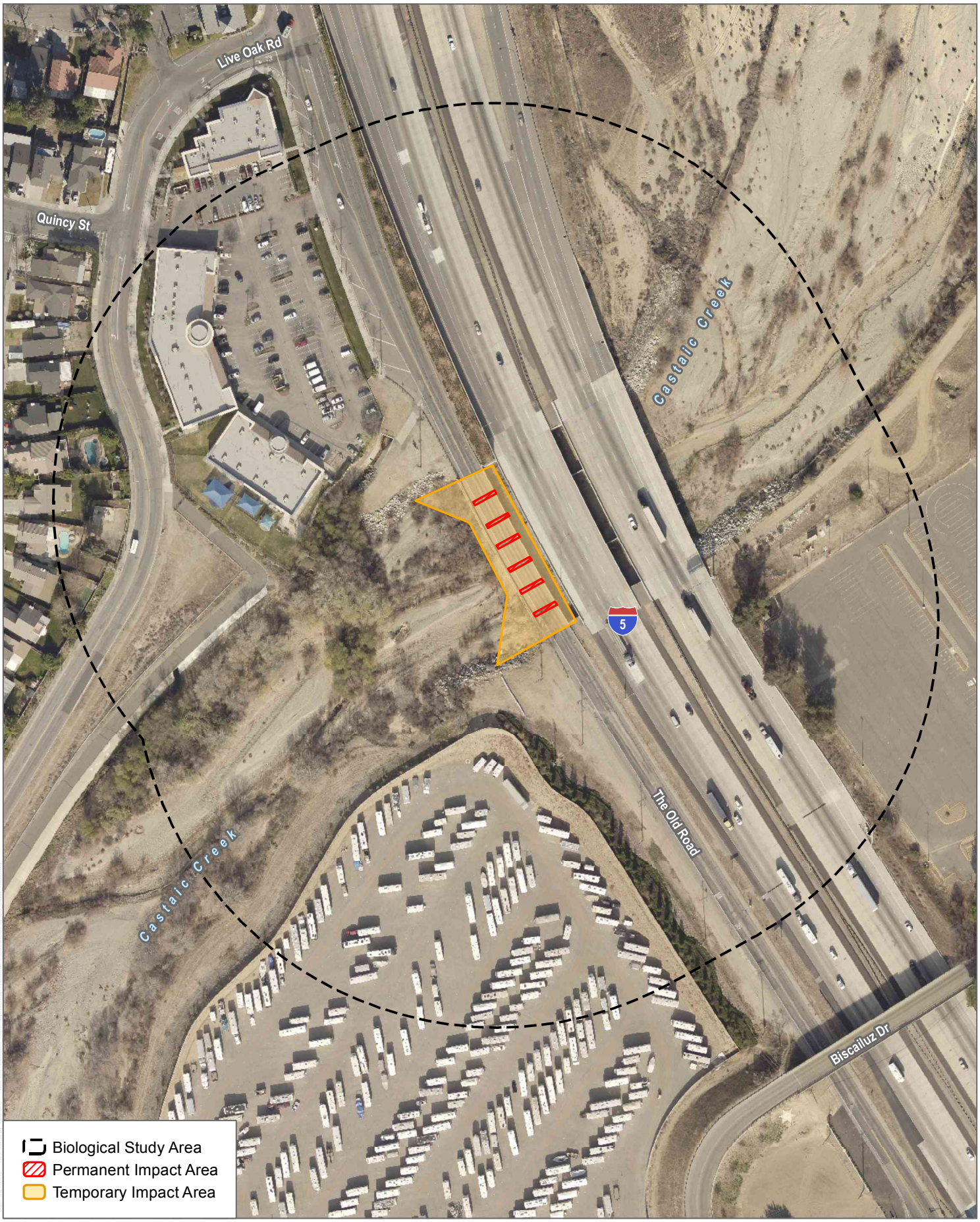
FEDERAL ENDANGERED SPECIES ACT

The federal Endangered Species Act (FESA) of 1973 (16 USC 1531 et seq.), as amended, is administered by the USFWS for most plant and animal species and by the National Oceanic and Atmospheric Administration National Marine Fisheries Service for certain marine species. FESA is intended to provide a means to conserve the ecosystems upon which endangered and threatened species depend, and to provide programs for the conservation of those species, preventing extinction of plants and wildlife. FESA defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its range" (16 USC 1531 et seq.). A threatened species is defined as "any species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range" (16 USC 1531 et seq.). Under FESA, it is unlawful to take any listed species; "take" is defined as "harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct" (16 USC 1531 et seq.).

FESA allows for the issuance of incidental take permits for listed species under Section 7, which is generally available for projects that also require other federal agency permits or other approvals, and under Section 10, which provides for the approval of habitat conservation plans on private property without any other federal agency involvement. Upon development of a habitat conservation plan, USFWS can issue incidental take permits for listed species.

CLEAN WATER ACT

Pursuant to Section 404 of the Clean Water Act (CWA), U.S. Army Corps of Engineers (USACE) regulates the discharge of dredged and/or fill material into waters of the United States. The term "wetlands" (a subset of waters) is defined in Title 33, Section 328.3(b), of the Code of Federal Regulations as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas." In the absence of wetlands, the limits of USACE jurisdiction in non-tidal waters, such as intermittent streams, extend to the ordinary high water mark, as defined in Title 33, Section 328.3(e), of the Code of Federal Regulations. Pursuant to Section 10 of the Rivers and Harbors Act of 1899, USACE regulates any potential obstruction or alteration of any navigable water of the United States.



SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 87.5 175 Feet

FIGURE 2

Biological Study Area

The Old Road Over Castaic Creek Project

Under Section 401 of the CWA, the local Regional Water Quality Control Board (RWQCB), Los Angeles RWQCB, must certify that actions receiving authorization under Section 404 of the CWA also meet State water quality standards. The RWQCB requires projects to avoid impacts to wetlands if feasible and requires that projects do not result in a net loss of wetland acreage or a net loss of wetland function and values. Compensatory mitigation for impacts to wetlands and/or waters of the State is required.

WETLANDS AND WATERS OF THE UNITED STATES

Aquatic resources, including riparian areas, wetlands, and certain aquatic vegetation communities, are considered sensitive biological resources and can fall under the jurisdiction of several regulatory agencies. USACE exerts jurisdiction over waters of the United States, including all waters that are subject to the ebb and flow of the tide; wetlands and other waters such as lakes, rivers, streams (including intermittent or ephemeral streams), mudflats, sandflats, sloughs, prairie potholes, vernal pools, wet meadows, playa lakes, or natural ponds; and tributaries of the above features. The extent of waters of the United States is generally defined as that portion that falls within the limits of the ordinary high water mark (OHWM). Typically, the OHWM corresponds to the two-year flood event.

Wetlands, including swamps, bogs, seasonal wetlands, seeps, marshes, and similar areas, are defined by USACE as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 328.3[b]; 40 CFR 230.3[t]). Indicators of three wetland parameters (i.e., hydric soils, hydrophytic vegetation, and wetlands hydrology), as determined by field investigation, must be present for a site to be classified as a wetland by USACE (1987).

MIGRATORY BIRD TREATY ACT

The MBTA was originally passed in 1918 as four bilateral treaties, or conventions, for the protection of a shared migratory bird resource. The primary motivation for the international negotiations was to stop the "indiscriminate slaughter" of migratory birds by market hunters and others (16 USC 703–712). Each of the treaties protects selected species of birds and provides for closed and open seasons for hunting game birds. The MBTA protects more than 800 species. Two species of eagles that are native to the United States—bald eagle (*Haliaeetus leucocephalus*) and golden eagle (*Aquila chrysaetos*)—were granted additional protection within the United States under the Bald and Golden Eagle Protection Act (16 USC 668–668d) to prevent these species from becoming extinct.

CALIFORNIA ENDANGERED SPECIES ACT

The California Department of Fish and Wildlife (CDFW) administers the California Endangered Species Act (CESA), which prohibits the take of plant and animal species designated by the California Fish and Game Commission as endangered or threatened in California. Under CESA Section 86, "take" is defined as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill" (CFG Code, Section 86). CESA Section 2053 stipulates that state agencies may not approve projects that will "jeopardize the continued existence of any endangered species or threatened species, or result in the destruction or adverse modification of habitat essential to the continued existence of those species, if there are reasonable and prudent alternatives available consistent with

conserving the species or its habitat which would prevent jeopardy" (CFG Code, Section 2053).

CESA defines an endangered species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease" (CFG Code, Section 2050 et seq.). CESA defines a threatened species as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any animal determined by the [California Fish and Game] Commission as rare on or before January 1, 1985, is a threatened species" (CFG Code, Section 2050 et seq.). A candidate species is defined as "a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the Commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the Commission has published a notice of proposed regulation to add the species to either list" (CFG Code, Section 2050 et seq.). CESA does not list invertebrate species.

CFG CODE, SECTIONS 3503, 3511, 3513, 3801, 4700, 5050, AND 5515

Section 2081(b) and (c) of the CFG Code authorizes take of endangered, threatened, or candidate species if take is incidental to otherwise lawful activity and if specific criteria are met. These provisions also require CDFW to coordinate consultations with USFWS for actions involving federally listed species that are also state-listed species. In certain circumstances, Section 2080.1 of CESA allows CDFW to adopt a federal incidental take statement or a 10(a) permit as its own, based on its findings that the federal permit adequately protects the species and is consistent with state law. A Section 2081(b) permit may not authorize the take of "fully protected" species or "specified birds" (CFG Code, Sections 3505, 3511, 4700, 5050, 5515, and 5517). If a project is planned in an area where a fully protected species or a specified bird occurs, an applicant must design the project to avoid take.

CFG CODE, SECTIONS 1600–1602

Pursuant to Section 1602 of the CFG Code, CDFW regulates all diversions, obstructions, or changes to the natural flow or bed, channel, or bank of any river, stream, or lake that supports fish or wildlife. A streambed alteration agreement is required for impacts to jurisdictional wetlands in accordance with Section 1602 of the CFG Code.

CALIFORNIA NATIVE PLANT PROTECTION ACT

The Native Plant Protection Act of 1977 directed the CDFW to carry out the Legislature's intent to "preserve, protect and enhance rare and endangered plants in this State." The Native Plant Protection Act gave the California Fish and Game Commission the power to designate native plants as "endangered" or "rare" and protect endangered and rare plants from take. The CESA expanded on the original Native Plant Protection Act and enhanced legal protection for plants, but the Native Plant Protection Act remains part of the Fish and Game Code. To align with federal regulations, the CESA created the categories of "threatened" and "endangered" species. It converted all "rare" animals into the act as

threatened species, but did not do so for rare plants. Thus, there are three listing categories for plants in California: rare, threatened, and endangered. Because rare plants are not included in the CESA, mitigation measures for impacts to rare plants are specified in a formal agreement between CDFW and the project proponent.

CEQA

The California Environmental Quality Act (CEQA) requires identification of a project's potentially significant impacts on biological resources and ways that such impacts can be avoided, minimized, or mitigated. The act also provides guidelines and thresholds for use by lead agencies for evaluating the significance of proposed impacts.

CEQA Guidelines Section 15380(b)(1) defines endangered animals or plants as species or subspecies whose "survival and reproduction in the wild are in immediate jeopardy from one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, disease, or other factors." A rare animal or plant is defined in Section 15380(b)(2) as a species that, although not presently threatened with extinction, exists "in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens; or … [t]he species is likely to become endangered within the foreseeable future throughout all or a significant portion of its range and may be considered 'threatened' as that term is used in the federal Endangered Species Act." Additionally, an animal or plant may be presumed to be endangered, rare, or threatened if it meets the criteria for listing, as defined further in CEQA Guidelines Section 15380(c).

CDFW has developed a list of "Special Species" as "a general term that refers to all of the taxa the California Natural Diversity Database (CDFW 2019a) is interested in tracking, regardless of their legal or protection status." This is a broader list than those species that are protected under the FESA, CESA, and other Fish and Game Code provisions, and includes lists developed by other organizations, including for example the Audubon Watch List Species. Guidance documents prepared by other agencies, including the Bureau of Land Management (BLM) Sensitive Species and USFWS Birds of Special Concern, are also included on this CDFW Special Species list. Additionally, CDFW has concluded that plant species with a California Native Plant Society (CNPS) California Rare Plant Rank (CRPR) 1 and 2, and potentially some CRPR 3 plant species, are covered by CEQA Guidelines Section 15380.

Section IV, Appendix G (Environmental Checklist Form), of the CEQA Guidelines requires an evaluation of impacts to "any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game[1] or the U.S. Fish and Wildlife Service."

SPECIAL-STATUS PLANTS AND WILDLIFE

Endangered, rare, or threatened species, as defined in CEQA Guideline Section 15380(b) (14 CCR 15000 et seq.), are referred to as "special-status" species in this study, and include (1) endangered or threatened species recognized in the context of CESA and FESA (CDFW 2019b-d; (2) plant species with a CRPR of 1 or 2; (3) California Species of Special Concern (SSC), as designated by the CDFW; and (4) mammals and birds that are

[1] Effective January 1, 2013, the California Department of Fish and Game changed its name to the California Department of Fish and Wildlife.

fully protected species (FP), as described in Fish and Wildlife Code, Section 4700 and 3511.

NATURAL COMMUNITIES OF SPECIAL CONCERN

Sensitive natural communities, as defined in Section IV, Appendix G (Environmental Checklist Form), of the CEQA Guidelines (14 CCR 15000 et seq.), are referred to as "natural communities of special concern" and, as used in this report, include communities identified as high priority for inventory in the California Natural Community List (CDFW 2019e) by a state rarity ranking of S1, S2, or S3.

COUNTY OF LOS ANGELES GENERAL PLAN

The County General Plan 2035 (General Plan) was adopted in 2015 and provides the policy framework for growth through the year 2035 for approximately 2,650 square miles of unincorporated portions of the County (County of Los Angeles 2015). The County General Plan Conservation and Natural Resources Element (Chapter 9) guides the long-term conservation of natural resources and preservation of available open space areas. Section III of Chapter 9 describes the goals and policies for biological resources occurring within unincorporated County land. The main types of biological resources in the unincorporated areas are: regional habitat linkages; forests; coastal zone; riparian habitats, streambeds and wetlands; woodlands; chaparral; desert shrubland; alpine habitats; Significant Ecological Areas (SEAs); and Coastal Resource Areas (CRAs). The General Plan works to protect and enhance these resources, and ensure that the legacy of the unique biotic diversity is passed on to future generations. The following relevant goals and policies are included in the General Plan:

Goal: Protection of Biological Resources

> **Policy C/NR 3.1**: Conserve and enhance the ecological function of diverse natural habitats and biological resources.
>
> **Policy C/NR 3.2**: Create and administer innovative County programs incentivizing the permanent dedication of SEAs and other important biological resources as open space areas.
>
> **Policy C/NR 3.3**: Restore upland communities and significant riparian resources, such as degraded streams, rivers, and wetlands to maintain ecological function—acknowledging the importance of incrementally restoring ecosystem values when complete restoration is not feasible.
>
> **Policy C/NR 3.4**: Conserve and sustainably manage forests and woodlands.
>
> **Policy C/NR 3.5**: Ensure compatibility of development in the National Forests in conjunction with the U.S. Forest Service Land and Resource Management Plan.
>
> **Policy C/NR 3.6**: Assist state and federal agencies and other agencies, as appropriate, with the preservation of special status species and their associated habitat and wildlife movement corridors through the administration of the SEAs and other programs.

Policy C/NR 3.7: Participate in inter-jurisdictional collaborative strategies that protect biological resources.

Goal: Site Sensitive Design

Policy C/NR 3.8: Discourage development in areas with identified significant biological resources, such as SEAs.

Goal: Woodland Preservation

Policy C/NR 4.1: Preserve and restore oak woodlands and other native woodlands that area conserved in perpetuity with a goal of no net loss of existing woodlands.

COUNTY OF LOS ANGELES SIGNIFICANT ECOLOGICAL AREAS

As part of the Conservation and Open Space and Land Use elements of the General Plan, the County has identified and adopted policies since 1970 for the establishment of SEAs. These SEAs contain irreplaceable biological resources (i.e., important lands or water areas with valuable plant and animal communities). Thus, SEAs were developed to maintain biological diversity by establishing natural biological parameters (key species, habitat types, and linkages) and recommended management practices. The final boundaries and categories for the 21 SEAs (and 9 Coastal Resource Areas) were established in 2015 with the County Board of Supervisors approval of the General Plan 2035.

Each SEA is sized to support sustainable populations of its component species, and includes undisturbed or lightly disturbed habitat, along with linkages and corridors that promote species movement. Some SEAs are located entirely or partially outside of the County's jurisdiction in cities, along the coastline, or within National Forest land. SEAs located within unincorporated County areas are administered through County General Plan goals, policies, and implementation programs and by the SEA Conditional Use Permit Ordinance. Although SEAs are located in areas throughout the County, they tend to be concentrated in and around the Angeles National Forest, the Mojave Desert, and the Santa Monica Mountains.

The SEA overlay along with the SEA conditional use permit process are referred to as the SEA Program, which allows the County to implement its biotic resource goals through land use regulations and biological resource assessments. The objective of the SEA Program is to conserve genetic and physical diversity by designating biological resource areas that are capable of sustaining themselves into the future. However, SEAs are not wilderness preserves. Much of the land in SEAs is privately held, used for public recreation, or abuts developed areas. The SEA Program balances resource preservation with other critical public needs.

The proposed project occurs within the Santa Clara River SEA (SEA 23) within unincorporated Los Angeles County jurisdiction. SEA 23 represents the last major unchanneled river in the County and was designated primarily due to the threat of loss of suitable habitat for the federally and state-listed as endangered unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*).

Studies Required

Studies conducted for the proposed project include pre-survey literature and database reviews, followed by a site reconnaissance and focused species surveys identified by LADPW with a potential to occur on the BSA based on known site conditions.

LITERATURE SEARCH

The following data sources were reviewed to assist with biological assessment efforts:

- USFWS Species Occurrence Data (USFWS 2019a);
- USFWS Critical Habitat Mapper (USFWS 2019a);
- USFWS IPaC System (USFWS 2019b);
- National Marine Fisheries Service (NMFS) Species List (NMFS 2019);
- CDFW CNDDB; (CDFW 2019a); and
- CNPS Inventory of Rare and Endangered Plants (CNPS 2019).

FIELD SURVEY

Dudek and sub-consultant GPA Consulting (GPA) conducted general and focused surveys for the proposed project site and surrounding BSA, including a biological reconnaissance-level field survey, a focused special-status fish survey, a formal jurisdictional delineation performed by GPA, focused special-status plant species surveys, a special-status bat survey, focused arroyo toad surveys, and focused least Bell's vireo surveys performed by GPA. The biological reconnaissance-level survey included the mapping of the vegetation communities and land covers present within the BSA and an evaluation of the potential for special-status species to occur in the BSA. Representative site photographs of the BSA are provided in Appendix A.

SURVEY METHODS

Biological Reconnaissance

The potential for special-status plant species and wildlife species to occur within the BSA was evaluated based on the vegetation communities and soils available, if present. Dudek used the CDFW's Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFW 2018) and California Natural Communities List (CDFW 2019e), also referred to as the Natural Communities List, and A Manual of California Vegetation, Second Edition (MCV2; Sawyer et al. 2009) to map vegetation communities present within the BSA. Vegetation communities were delineated to the vegetation alliance level, and where appropriate to the association level. Some modifications were incorporated to accommodate the lack of conformity of the observed communities to those included in these references.

All plant species and wildlife species observed during the field survey by sight, calls, tracks, scat, or other signs were recorded and compiled in Appendix B. Binoculars (10x42 magnification) were used to aid in the identification of wildlife. Latin and common names of animals follow Crother (2012) for reptiles and amphibians, American Ornithologists' Union (AOU) (2016) for birds, Wilson and Reeder (2005) for mammals, North American Butterfly Association (NABA) (2016) for butterflies, and Moyle (2002) for fish.

Focused Special-Status Fish Survey

Qualified fisheries biologist Andrew Hatch conducted a habitat assessment and focused survey for special-status fish species on February 13, 2019 (Table 1). The assessment included a literature review of CNDDB to determine the number and distribution of documented federally-listed fish species occurrences within five miles of the BSA. A reconnaissance-level site visit was then conducted to assess potential fish habitat within the BSA and a focused fish survey was conducted in potentially suitable habitat identified within Castaic Creek.

The survey was conducted by walking the entire BSA on foot. Binoculars were used to scan ahead for wildlife prior to walking through new areas. Habitat features such as riparian vegetation cover, channel width, substrate, etc. were recorded throughout the BSA. The potential for Castaic Creek to support various life stages of target fish species was evaluated based on hydrology and physical habitat conditions. All fish species, if observed, were recorded. Target fish species included in the survey were derived from a review of the species list provided by NMFS, which is included in Appendix C.

Focused Special-Status Plant Species Surveys

Qualified botanist Heather Moine conducted focused special-status plant species surveys on May 13, 2019 and July 17, 2019 (Table 1). The BSA was surveyed with meandering transects searching for federally- and/or state-listed plants known to occur or with the potential to occur within the BSA. The surveys conformed to CNPS Botanical Survey Guidelines (CNPS 2001); Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFW 2018); and Guidelines for Conducting and Reporting Botanical Inventories for Federally Listed, Proposed, and Candidate Plants (USFWS 1996). All plant species encountered during surveys were identified to subspecies or variety, if applicable, to determine sensitivity status. Locations of target species were recorded using digital mobile maps.

Focused Least Bell's Vireo Surveys

GPA biologist Sheri Mayta conducted least Bell's vireo (*Vireo bellii pusillus*) survey passes between April 13 and July 16, 2019 (Table 1 and Appendix D). The focused surveys were conducted following the currently accepted USFWS guidelines, Least Bell's Vireo Survey Guidelines (USFWS 2001). Therefore, the surveys included a minimum of eight survey visits between April 10 and July 31. Consistent with the guidelines, survey visits were separated by at least 10 days. Recorded playback of least Bell's vireo vocalizations were not used during the survey.

The surveys were conducted by slowly walking a methodical, meandering transect within and adjacent to all riparian habitat on site. A 200-scale topographic map (1 inch = 200 feet) overlain with vegetation polygons and the BSA was utilized during the survey.

Appropriate binoculars (e.g., 10x42 magnification) were used to aid in detecting and identifying wildlife species. All other avian species detected during surveys were recorded.

Focused Arroyo Toad Surveys

Qualified biologists Tommy Molioo, Paul Lemons, Tracy Park, and Heather Moine conducted arroyo toad (*Anaxyrus californicus*) survey passes with assistance from Jennifer Johnson (GPA) between April 2 and June 26, 2019 (Table 1). The focused surveys were conducted following the currently accepted USFWS guidelines, Survey Protocol for the Arroyo Toad (USFWS 1999). Therefore, the survey included six survey visits at least seven days between surveys, and at least one survey conducted per month during April, May, and June. Daytime and nighttime surveys were conducted within a 24-hour period during each visit.

Focused surveys for arroyo toad were conducted within suitable habitat for the species within the BSA, which included areas associated with the Castaic Creek channel. Additionally, suitable habitat approximately one kilometer upstream and downstream of the project site was surveyed, where accessible (Figure 2). Surveyors focused on areas with evidence of ponding, as well as riparian areas adjacent to the creek.

The daytime surveys were conducted by walking slowly along stream margins and visually searching for toads or juveniles and for shallow pools that may support tadpoles. The nighttime surveys were conducted at least one hour after sunset by walking along the margin of the stream, listening for vocalizations. Surveyors stopped periodically and remained silent to wait for arroyo toads to begin calling. Surveys were not conducted under full-moon or near full-moon conditions.

A 750-scale aerial map (1 inch = 750 feet) overlain with the project BSA and 1-kilometer arroyo toad survey area was utilized during the survey. Appropriate binoculars (e.g., 10x42 magnification) were used to aid in detecting and identifying wildlife species, and flashlights and headlamps were used to detect eye shine during the nighttime surveys. All incidental observations of other wildlife species were recorded.

Focused Special-Status Bat Survey

Qualified Dudek biologist Tommy Molioo conducted a bat presence/absence survey with assistance from Tracy Park between June 17 and June 26, 2019 (Table 1). The survey consisted of a daytime roost assessment throughout the BSA to identify any sign indicating presence (i.e., guano, staining, and odor). A visual emergence survey was conducted at dusk in areas with potential roosts and flyways with the use of appropriate binoculars (e.g., 10x42 magnification) and a high-powered flashlight for spotlighting to determine the number of bats potentially roosting within the BSA. The locations and number of individual bats observed during the emergence survey, as well as any distinguishable flight patterns were recorded.

The survey also included active and passive acoustic monitoring in order to record echolocation calls of bats during emergence and foraging activities. One full-spectrum acoustic monitoring bat detector was deployed between June 21 and June 26, 2019 in close proximity to potential roost locations and within flyways where bat activity is most likely to occur. The detector was set to record echolocation calls from sunset to sunrise for approximately 10 recording hours per night. Data was processed off-site with the use of Sonobat 4.2 software to aid in identifying echolocation calls to the species level with

manual vetting of ambiguous or questionable calls. Passive acoustic monitoring was not conducted during periods of excessive or abnormal cold, heat, wind, rain, or inclement weather that individually or collectively reduces the likelihood of detection.

Active acoustic monitoring was also conducted during the roost assessment and emergence survey to aid in observing species activity and identifying species present. A Petterson M500 microphone was attached to a tablet running Sonobat Live software, and a Wildlife Acoustics Echo Meter Touch Pro was attached to an iPad with the Echo Meter app, to audibly and visually detect bats flying during emergence and foraging. The active monitoring effort was conducted in areas where flying bats were most likely to be detected (i.e., along the Castaic Creek channel or beneath potential roosts). The recorded echolocation calls were manually vetted off-site using Sonobat 4.2 software to aid in confident identification to the species level. All bat species recorded and vetted by Sonobat 4.2 were documented.

Jurisdictional Delineation

A jurisdictional delineation of "waters of the U.S.," including wetlands, under the jurisdiction of the USACE, CDFW, and RWQCB was conducted by GPA to document potential jurisdictional waters in the BSA in accordance with the 1987 USACE Wetland Delineation Manual: Arid West Region (USACE 2008). The wetland delineation focused on identifying the extent of regulated resources within Castaic Creek, which was evaluated for evidence of an OHWM, surface water, and hydrophytic vegetation. A predominance of a bed and bank with evidence of hydrology and/or hydrophytic vegetation, where associated with a stream channel, defined CDFW-regulated wetlands. The limits of areas under the jurisdiction of the RWQCB generally match those areas delineated as USACE-jurisdictional. However, stream channels with evidence of an OHWM that lack connectivity to waters of the U.S. may be considered to be under the jurisdiction of RWQCB and CDFW, but not under the jurisdiction of USACE. The jurisdictional delineation report is included in Appendix E.

Personnel and Survey Dates

Table 1 below includes the survey dates and conditions for the general and focused biological surveys conducted in the BSA for the proposed project.

Table 1
Schedule of Surveys

Date	Hours	Personnel	Focus	Conditions
2/13/2019	1100–1300	AH	Special-Status Fish Habitat Assessment Focused Special-Status Fish Survey	57°F, 100% cc, 7 mph wind
2/26/2019	0900–1200	TM, GPA	General biological reconnaissance level survey, vegetation mapping, resources mapping, habitat assessment	50°F, 90% cc, 0-1 mph wind
2/26/2019	0900–1200	GPA	Jurisdictional delineation	50°F, 90% cc, 0-1 mph wind
4/2/2019	1720–1915	TM, TP	Focused Arroyo Toad Day Survey – Pass 1	65-74°F, 0-15% cc, 0-2 mph wind

Table 1
Schedule of Surveys

Date	Hours	Personnel	Focus	Conditions
4/2/2019	2045–2130	TM, TP	Focused Arroyo Toad Night Survey – Pass 1	59°F, 0-5% cc, 0-2 mph wind
4/13/2019	0930–1100	GPA	Focused Least Bell's Vireo Survey – Pass 1	66-70°F, 0% cc, 4-5 mph wind
4/23/2019	0900–1030	GPA	Focused Least Bell's Vireo Survey – Pass 2	80-84°F, 0% cc, 0-5 mph wind
4/22/2019	1730–1930	TM, TP	Focused Arroyo Toad Day Survey – Pass 2	79-82°F, 0% cc, 1-8 mph wind
4/22/2019	2100–2200	TM, TP	Focused Arroyo Toad Night Survey – Pass 2	66-72°F, 0% cc, 0-4 mph wind
5/3/2019	0845–1045	GPA	Focused Least Bell's Vireo Survey – Pass 3	82-87°F, 90% cc, 1 mph wind
5/13/2019	0740–1100	HM	Focused Special-Status Plant Species Survey – May Pass	58-60°F, 100% cc, 1 mph wind
5/15/2019	0800–0915	GPA	Focused Least Bell's Vireo Survey – Pass 4	61-63°F, 90% cc, 0-2 mph wind
5/20/2019	1730–1915	PL, TP	Focused Arroyo Toad Day Survey – Pass 3	65-71°F, 70-90% cc, 0-4 mph wind
5/20/2019	2000–2100	PL, TP	Focused Arroyo Toad Night Survey – Pass 3	59-60°F, 40-70% cc, 0-5 mph wind
6/5/2019	1700–2000	JJ, TP	Focused Arroyo Toad Day Survey – Pass 4	73-88°F, 0-10% cc, 0-2 mph wind
6/5/2019	2105–2230	JJ, TP	Focused Arroyo Toad Night Survey – Pass 4	62-66°F, 0% cc, 1-3 mph wind
6/12/2019	0830–0945	GPA	Focused Least Bell's Vireo Survey – Pass 4	71-76°F, 0% cc, 0-1 mph wind
6/13/2019	1645–2005	HM, TP	Focused Arroyo Toad Day Survey – Pass 5	72-83°F, 0% cc, 1-4 mph wind
6/13/2019	2110–2300	HM, TP	Focused Arroyo Toad Night Survey – Pass 5	64-66°F, 0% cc, 1-5 mph wind
6/17/2019	1900–2215	TM, TP	Focused Special-Status Bat Survey – Daytime Roost Assessment, Emergence Survey, Active Acoustic Monitoring, Passive Acoustic Monitoring Setup	63-78°F, 0% cc, 0-5 mph wind
6/21/2019	1200–1246	TP	Focused Special-Status Bat Survey – Passive Acoustic Monitoring Check	68-70°F, 100% cc, 1-5 mph wind
6/24/2019	0930–1045	GPA	Focused Least Bell's Vireo Survey – Pass 5	63-66°F, 0% cc, 1-2 mph wind
6/26/2019	1615–1700	TP	Focused Special-Status Bat Survey – Passive Acoustic Monitoring Removal	81-83°F, 0% cc, 2-4 mph wind
6/26/2019	1700–1933	TP, GPA	Focused Arroyo Toad Day Survey – Pass 6	76-81°F, 0% cc, 1-3 mph wind
6/26/2019	2110–2246	TP, GPA	Focused Arroyo Toad Night Survey – Pass 6	64-66°F, 0% cc, 0-1 mph wind

Table 1
Schedule of Surveys

Date	Hours	Personnel	Focus	Conditions
7/18/2019	0930–1030	GPA	Focused Least Bell's Vireo Survey – Pass 6	79-92°F, 0% cc, 0-1 mph wind
7/17/2019	0830–1150	HM	Focused Special-Status Plant Species Survey – July Pass	67-94°F, 0% cc, 1-2 mph
7/31/2019	0835–1000	GPA	Focused Least Bell's Vireo Survey – Pass 7	74-77°F, 0-15% cc, 0-1 mph wind
AH = Andrew Hatch; HM = Heather Moine; PL = Paul Lemons; TM = Tommy Molioo; TP = Tracy Park; GPA = GPA Consulting personnel; °F = degrees Fahrenheit; cc = cloud cover; mph = miles per hour				

Mr. Molioo has over 11 years of professional experience as a biologist specializing in technical surveys and reporting for projects requiring CEQA/National Environmental Policy Act (NEPA) compliance. His experience includes conducting habitat assessments, vegetation mapping, biological resources impact analyses, bat surveys, formal wetland delineations for state and federally regulated waters and wetlands, and avian and raptor surveys. He holds a USFWS Section 10(a) survey permit for California gnatcatcher (*Polioptila californica californica*) and has conducted focused protocol surveys for a variety of sensitive plant and wildlife species including, but not limited to, arroyo toad, coastal California gnatcatcher, burrowing owl (*Athene cunicularia*), least Bell's vireo (*Vireo bellii pusillus*), desert tortoise (*Gopherus agassizii*), and Coachella Valley milkvetch (*Astragalus lentiginosus* var. *coachellae*).

Mr. Hatch is a fish and wildlife biologist with over 16 years of professional experience conducting aquatic biological assessments, focused special-status fish surveys, fish relocations, and various fisheries studies. He holds a CDFW Scientific Collecting Permit and Memorandum of Understanding for California tiger salamander (*Ambystoma californiense*), and longfin smelt (*Spirinchus thaleichthys*), and has extensive experience coordinating with USFWS and CDFW to develop management and permitting strategies for fisheries resources.

Ms. Moine has over 14 years of professional experience performing special-status plant and wildlife surveys and reporting for projects requiring CEQA/NEPA compliance. Her experience includes conducting general biological assessments, wetlands delineations, permit preparation and implementation, restoration plan preparation and implementation, and invasive plant species management and monitoring. She has extensive experience conducting focused surveys for special-status, state-, and/or federally-listed plants including, but not limited to: slender mariposa lily (*Calochortus clavatus* var*. gracilis*), alkali mariposa lily (*Calochortus striatus*), San Fernando Valley spineflower (*Chorizanthe parryi* var*. fernandina*), Gaviota tarplant (*Deinandra increscens* ssp*. villosa*), seacliff buckwheat (*Eriogonum parvifolium*), Gambel's watercress (*Nasturtium gambelii*), black-flowered figwort (*Scrophularia atrata*), thread-leaved brodiaea (*Brodiaea filifolia*), La Graciosa thistle (*Cirsium scariosum* var*. loncholepis*), beach layia (*Layia carnosa*), and marsh sandwort (*Arenaria paludicola*).

Mr. Lemons is a wildlife biologist with over 16 years of professional experience conducting general and special-status wildlife surveys, biological monitoring, as well as reporting for projects requiring CEQA/NEPA compliance. His experience includes conducting focused protocol-level surveys for burrowing owl, arroyo toad, California red-legged frog (*Rana*

draytonii), mountain yellow-legged frog (*Rana muscosa*), southwestern pond turtle (*Actinemys marmorata pallida*), southwestern willow flycatcher (*Empidonax traillii extimus*), California coastal gnatcatcher, and least Bell's vireo, as well as habitat assessments for Coachella Valley fringe-toed lizard (*Uma inornata*). He holds USFWS Section 10(a) survey permits for Quino checkerspot butterfly (*Euphydryas editha quino*), California coastal gnatcatcher, southwestern willow flycatcher, and vernal pool branchiopods, in addition to a CDFW Scientific Collecting Permit.

Mrs. Park has over 3 years of experience as a field technician and biologist conducting biological surveys throughout Southern California. Her experience includes conducting various wildlife and botanical surveys, habitat assessments, vegetation mapping, and wetland delineations, as well as reporting for projects requiring CEQA compliance. She has conducted focused protocol surveys for a variety sensitive plant and wildlife species including, but not limited to, arroyo toad, burrowing owl, desert tortoise, southwestern willow flycatcher, least Bell's vireo, native grassland species, San Fernando Valley spineflower, slender mariposa lily, and Gaviota tarplant.

Agency Coordination and Professional Contacts

No agency coordination has occurred to date.

Limitations That May Influence Results

The vegetation mapping, jurisdictional delineation, special-status plant species surveys were conducted during the day and during months of the year when most annuals would have been evident or identifiable. The focused special-status plant species surveys were conducted during late spring (May 2019) and mid-summer (July 2019) seasons, which resulted in the detection and identification of most blooming annual and perennial plant species that occur in the area.

Climatic conditions during the surveys were generally favorable for identification of wildlife. Other limitations for wildlife observations include a lack of wildlife trapping. Many species of reptiles and small mammals are secretive in their habits and are difficult to observe using standard meandering transects.

Southwestern willow flycatcher surveys were supposed to be conducted by Dudek and GPA concurrently with least Bell's vireo surveys when survey dates overlapped. However, due to existing ongoing survey efforts for southwestern willow flycatcher for another project whose survey area overlaps the BSA, the USFWS did not allow multiple survey efforts to occur within the same area to avoid potential significant harassment to nesting flycatchers. Therefore, survey results for this species within the BSA will be provided from the survey report for the overlapping project conducted by Woodstar Biological LLC (Appendix F).

Chapter 3 – Results: Environmental Setting

The BSA is generally located in the western portion of Los Angeles County and in the unincorporated area of Val Verde. The BSA is depicted on the Newhall Ranch, California quadrangle of the USGS 7.5-minute topographic map series on Section 12, Range 17 West, Township 4 North. Specifically, the BSA is located where The Old Road spans over Castaic Creek, immediately west of Interstate 5 (I-5), north of State Route 126, and south of Hasley Canyon Road. Land use in the vicinity of the BSA consists of residential and commercial development to the north, commercial development to the south, and undeveloped land associated with Castaic Creek to the east and west.

Description of the Existing Biological and Physical Conditions

STUDY AREA

The proposed project involves a seismic retrofit on The Old Road Over Castaic Creek in the Val Verde community within unincorporated Los Angeles County (Figure 1). The impact area includes the bridge abutments and footings.. A BSA was established around the proposed project, consisting of the proposed impact area and a surrounding 500-foot buffer to document existing conditions and determine the potential for project-related impacts to occur.

PHYSICAL CONDITIONS

According to the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS), the BSA supports 4 soil types and land mapping units. The soils and land mapping units mapped within the BSA include:

- Cortina sandy loam (0 to 2 percent slopes)
- Hanford sandy loam (0 to 2 percent slopes)
- Riverwash
- Sandy alluvial land

Cortina soils consist of very deep to somewhat excessively drained soils that typically occur on alluvial fans and floodplains. These soils formed in gravelly alluvium from mixed rock sources and are found on slopes ranging from 0 to 15 percent. Cortina soils are considered hydric in California.

Hanford soils consist of very deep to well drained soils that formed in moderately coarse textured alluvium dominantly from granite. These soils typically occur on stream bottoms, floodplains and alluvial fans with slopes ranging from 0 to 15 percent. Hanford soils are considered hydric in California.

Riverwash is a land mapping unit that describes soils associated with rivers and streams that contain a mix of sand, loam, and cobbles that are typically scoured out from stormflows and may be inundated with water during all or a portion of the year.

Sandy alluvial land is a land mapping unit that describes areas containing a mix of sandy alluvial substrate that does not have an official NRCS soils series description. Soils associated with this land mapping unit are nondescript and may have been significantly altered and are now compacted with concrete or asphalt.

Topographic relief within the BSA ranges from approximately 1,020 feet AMSL to 1,040 feet AMSL sloping gently in a southerly direction toward Santa Clara River. Vegetation within the BSA is primarily associated with the Castaic Creek channel; however, the majority of the BSA is comprised of developed land and disturbed habitat associated with urban development located in the creek's upland areas.

The project site occurs within the Santa Clara River Watershed (USGS HUC [Hydrologic Unit Code] 8: 18070102) and crosses over Castaic Creek (USGS HUC 10: 1807010203).

BIOLOGICAL CONDITIONS IN THE BIOLOGICAL STUDY AREA

Vegetation communities and land covers found within the BSA are comprised of annual brome grasslands, arroyo willow thickets, California sagebrush scrub, Fremont cottonwood-red willow woodland, giant reed breaks, narrow cattail-salt grass marshes, scale broom-mulefat scrub, tamarisk thickets, thick-leaf yerba santa scrub, disturbed habitat, open water, and urban/developed land. The vegetation communities and land covers within the BSA are discussed in further detail below. The BSA is generally situated in an intergrade between urbanized areas associated with residential, commercial, and industrial developments and riparian vegetation associated with the Castaic Creek. Prominent features within the BSA include The Old Road Over Castaic Creek, I-5, and Castaic Creek, a north-south trending watercourse. The Angeles National Forest is located approximately 3.9 miles northeast of the BSA.

Plants

A total of 106 plant species were recorded in the BSA during general and focused surveys conducted between February 13, 2019 and July 17, 2019. Of the 106 species observed, 59 (56%) plant species are native to California and 47 (44%) are non-native plant species, in total representing 36 families. A cumulative list of plant species observed in the BSA is provided in Appendix B of this report.

Latin and common names for plant species with a designated CRPR follow the CNPS Online Inventory of Rare, Threatened, and Endangered Plants (CNPS 2019). For plant species without a CRPR, scientific names follow the Jepson Interchange List of Currently Accepted Names of Native and Naturalized Plants of California (Jepson Flora Project 2019) and common names follow the USDA NRCS PLANTS Database (USDA 2019).

Wildlife

Wildlife species observed in the BSA during the biological reconnaissance include species commonly found in native riparian habitats associated with an intermittent stream located adjacent to upland urban settings where species are adapted to a fair amount of disturbance. Commonly observed species include but are not limited to: bushtit (*Psaltriparus minimus*), house finch (*Haemorhous mexicanus*), less goldfinch (*Spinus psaltria*), Anna's hummingbird (*Calypte anna*), California scrub-jay (*Aphelocoma californica*), American crow (*Corvus brachyrhynchos*), California towhee (*Melozone*

crissalis), and California treefrog (*Pseudacris cadaverina*). The complete list of wildlife species observed is included in Appendix B.

Habitat Connectivity

Wildlife corridors are linear features that connect large patches of natural open space and provide avenues for the migration of animals. Wildlife corridors contribute to population viability by ensuring continual exchange of genes between populations and by providing access to adjacent habitat and routes for recolonization after local extirpation or ecological catastrophes (e.g., fires).

Habitat linkages are small patches that join larger blocks of habitat and help reduce the adverse effects of habitat fragmentation. Habitat linkages provide a potential route for gene flow and long-term dispersal of plants and animals and may also serve as primary habitat for smaller animals, such as reptiles and amphibians. Habitat linkages may be continuous habitat or discrete habitat islands that function as stepping stones for dispersal.

The BSA occurs within Castaic Creek that receives scheduled releases from Castaic Dam and conveys runoff from stormwater flows and is a tributary to the Santa Clara River. Castaic Creek and the Santa Clara River function as a corridor for wildlife (particularly small to medium size mammals) migrating through the region between Castaic Lake and the Angeles National Forest to the north and the Santa Clara River Valley and the Pacific Ocean to the west. However, the portion of Castaic Creek within the BSA is not designated as an official or significant wildlife corridor that is vital to the movement of wildlife in the region.

Regional Species and Habitats and Natural Communities of Concern

SPECIAL-STATUS PLANT SPECIES

Thirty special-status plant species are reported to occur within the USGS 7.5-minute *Newhall* quadrangle and surrounding eight 7.5-minute quadrangles (*Whitaker Peak*, *Warm Springs Mountain*, *Green Valley*, *Val Verde*, *Mint Canyon*, *Santa Susana*, *Oat Mountain*, *San Fernando*) (CDFW 2019a; CNPS 2019) or included within the USFWS IPaC Trust Resource List for the proposed project (USFWS 2019) (Appendix D). Eight of these species are federal and/or State listed as endangered or threatened species, including the following six species from the USFWS IPaC Trust Resource List for the proposed project (USFWS 2019): federally and State endangered California Orcutt grass (*Orcuttia californica*), federally endangered and state threatened Gambel's watercress (*Nasturtium* [*Rorippa*] *gambelii*), federally and state endangered marsh sandwort (*Arenaria paludicola*), federally and state endangered Nevin's barberry (*Berberis nevinii*), federally and state endangered slender-horned spineflower (*Dodecahema leptoceras*), and federally threatened spreading navarretia (*Navarretia fossalis*).

Potential habitat was determined to be absent for 13 species that are not expected to occur within the BSA. Of the 17 species determined to have potential habitat present, one species, white rabbit-tobacco (*Pseudognaphalium leucocephalum*), was observed within the BSA. The remaining 16 species with potential habitat present are not expected to occur or were determined to have a low potential to occur due to extirpation of nearby occurrences, lack of known populations within five miles of the BSA, or absence during the focused special-status plant species surveys. All 30 special-status plant species, their

habitat requirements, regulatory status, presence of habitat within the BSA, and their potential to occur are discussed in Table 2, below.

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Allium howellii var. *clokeyi*	Mt. Pinos onion	None/ None/ 1B.3	Great Basin scrub, Meadows and seeps (edges), Pinyon and juniper woodland/ perennial bulbiferous herb/Apr–June/ 4265–6070	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Arenaria paludicola	marsh sandwort	FE/SE/1 B.1	Marshes and swamps (freshwater or brackish); sandy, openings/perennial stoloniferous herb/ May–Aug/5–560	Absent	Not expected to occur. The BSA lacks suitable marshes and swamps habitat for this species. In addition, the closest documented occurrence is located over 20 miles southeast of the BSA, dates back to 1892, and is considered extirpated (CDFW 2019a).
Astragalus brauntonii	Braunton's milk-vetch	FE/ None/ 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland; recent burns or disturbed areas, usually sandstone with carbonate layers/ perennial herb/Jan–Aug/10–2100	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, grassland) for this species, the closest CNDDB occurrence is over 15 miles southeast of the BSA in the Simi Hills area (CDFW 2019a).
Berberis nevinii	Nevin's barberry	FE/SE/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Riparian scrub; sandy or gravelly/perennial evergreen shrub/ (Feb)Mar–June/ 225–2705	Habitat Present	Not expected to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, riparian scrub), this species was not observed during the focused special-status plant species survey conducted on May 13, 2019. This conspicuous perennial evergreen shrub would have been detectable if present.

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Calochortus clavatus var. *gracilis*	slender mariposa lily	None/ None/ 1B.2	Chaparral, Coastal scrub, Valley and foothill grassland/ perennial bulbiferous herb/Mar–June(Nov)/ 1045–3280	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, grassland) for this species, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019. The closest CNDDB occurrence is located on a hillside approximately 0.4-mile southwest of the BSA (CDFW 2019a).
Calochortus fimbriatus	late-flowered mariposa lily	None/ None/ 1B.3	Chaparral, Cismontane woodland, Riparian woodland; often serpentinite/ perennial bulbiferous herb/June–Aug/ 900–6250	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral and riparian woodland habitat for this species, the closest CNDDB occurrence is over 5 miles south of the BSA in the Santa Susana Mountains (CDFW 2019a).
Calochortus palmeri var. *palmeri*	Palmer's mariposa lily	None/ None/ 1B.2	Chaparral, Lower montane coniferous forest, Meadows and seeps; mesic/ perennial bulbiferous herb/Apr–July/ 2325–7840	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Castilleja gleasoni	Mt. Gleason paintbrush	None/ SR/ 1B.2	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; granitic/perennial herb (hemiparasitic)/ May–June(Sep)/ 3805–7120	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Chorizanthe parryi var. *fernandina*	San Fernando Valley spineflower	FC/SE/ 1B.1	Coastal scrub (sandy), Valley and foothill grassland/annual herb/Apr–July/490–4005	Habitat Present	Low potential to occur. Although the BSA contains coastal scrub and grassland habitat suitable for this species, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019. The closest CNDDB occurrence is located on a hillside approximately 0.4-mile

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
					southwest of the BSA (CDFW 2019a).
Chorizanthe parryi var. *parryi*	Parry's spineflower	None/ None/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub, Valley and foothill grassland; sandy or rocky, openings/annual herb/Apr–June/ 900–4005	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, grassland) for this species, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019. The closest CNDDB occurrence is located over 3 miles northwest of the BSA in Romero Canyon (CDFW 2019a).
Deinandra minthornii	Santa Susana tarplant	None/ SR/ 1B.2	Chaparral,Coastal scrub;rocky/perennial deciduous shrub/ July–Nov/915–2495	Habitat Present	Low potential to occur. The closest documented occurrence is over 4 miles northwest of the BSA in the Simi Hills area (CCH 2019).
Dodecahema leptoceras	slender-horned spineflower	FE/SE/ 1B.1	Chaparral, Cismontane woodland, Coastal scrub (alluvial fan); sandy/annual herb/Apr–June/ 655–2495	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral and coastal scrub habitat for this species, the closest documented occurrence is over 5 miles southeast of the BSA in the Simi Hills area (CDFW 2019a). In addition, this element occurrence dates back to 1893 and is likely extirpated (CDFW 2019a).
Galium grande	San Gabriel bedstraw	None/ None/ 1B.2	Broadleafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest/ perennial deciduous shrub/Jan–July/ 1390–4920	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Helianthus inexpectatus	Newhall sunflower	None/ None/ 1B.1	Marshes and swamps, Riparian woodland; freshwater, seeps/perennial rhizomatous herb/ Aug–Oct/1000–1000	Absent	Low potential to occur. Riparian woodland within the BSA lacks marshes or seeps suitable for this species. Additionally, the only known population of this species occurs in Newhall Ranch well outside of the BSA.

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Helianthus nuttallii ssp. *parishii*	Los Angeles sunflower	None/ None/ 1A	Marshes and swamps (coastal salt and freshwater)/perennial rhizomatous herb/ Aug–Oct/30–5005	Absent	Not expected to occur. The BSA lacks suitable marsh and swamp habitat for this species.
Horkelia cuneata var. *puberula*	mesa horkelia	None/ None/ 1B.1	Chaparral (maritime), Cismontane woodland, Coastal scrub; sandy or gravelly/perennial herb/Feb–July(Sep)/ 225–2655	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral and coastal scrub habitat for this species, the closest documented occurrence is over 10 miles southwest of the BSA in Moorpark (CDFW 2019a). Additionally, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019.
Lepechinia rossii	Ross' pitcher sage	None/ None/ 1B.2	Chaparral/perennial shrub/May–Sep/1000–2590	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral scrub habitat for this species, the closest documented occurrence is over 10 miles northeast of the BSA near Red Mountain (CDFW 2019a). Additionally, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019.
Lupinus paynei	Payne's bush lupine	None/ None/ 1B.1	Coastal scrub, Riparian scrub, Valley and foothill grassland; Sandy/perennial shrub/Mar–Apr(May–July)/720–1380	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., coastal scrub, riparian scrub, grassland), this species was not observed during the focused special-status plant species survey conducted on May 13, 2019. This perennial shrub would have been detectable if present. In addition, the closest documented occurrence is over 9.5 miles southwest of the BSA in Rancho Temescal (CDFW 2019a).

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Malacothamnus davidsonii	Davidson's bush-mallow	None/None/1B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland/perennial deciduous shrub/June–Jan/605–3740	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, riparian woodland), this species was not observed during the focused special-status plant species survey conducted on May 13, 2019. This perennial shrub would have been detectable if present. In addition, the closest documented occurrence is over 10 miles southeast of the BSA in Sylmar (CDFW 2019a).
Nasturtium gambelii	Gambel's water cress	FE/ST/ 1B.1	Marshes and swamps (freshwater or brackish)/perennial rhizomatous herb/ Apr–Oct/15–1085	Absent	Not expected to occur. The BSA lacks suitable marshes and swamps habitat for this species. In addition, the closest documented occurrence dates back to 1892 and is located over 20 miles southeast of the BSA (CCH 2019).
Navarretia fossalis	spreading navarretia	FT/ None/ 1B.1	Chenopod scrub, Marshes and swamps (assorted shallow freshwater), Playas, Vernal pools/annual herb/Apr–June/95–2150	Absent	Not expected to occur. The BSA lacks suitable habitat (i.e., chenopod scrub, marshes and swamps, playas, vernal pools) for this species.
Navarretia ojaiensis	Ojai Navarretia	None/ None/ 1B.1	Chaparral (openings), Coastal scrub (openings), Valley and foothill grassland/annual herb/May–July/900–2035	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat (i.e., chaparral, coastal scrub, grassland) for this species, the closest documented occurrence is over 5 miles southwest of the BSA near Newhall Orchard (CDFW 2019a). Additionally, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019.

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Navarretia setiloba	Piute Mountains navarretia	None/ None/ 1B.1	Cismontane woodland, Pinyon and juniper woodland, Valley and foothill grassland; clay or gravelly loam/annual herb/Apr–July/935–6890	Habitat Present	Low potential to occur. Although the BSA contains suitable grassland habitat for this species, the closest documented occurrence is over 9 miles east of the BSA near Mint Canyon (CDFW 2019a). Additionally, this species was not observed during the focused special-status plant species survey conducted within its blooming period on May 13, 2019.
Opuntia basilaris var. *brachyclada*	short-joint beavertail	None/ None/ 1B.2	Chaparral, Joshua tree woodland, Mojavean desert scrub, Pinyon and juniper woodland/perennial stem succulent/Apr–June(Aug)/1390–5905	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Orcuttia californica	California Orcutt grass	FE/SE/ 1B.1	Vernal pools/annual herb/Apr–Aug/45–2165	Absent	Not expected to occur. The BSA lacks vernal pools suitable for this species.
Pseudognaphalium leucocephalum	white rabbit-tobacco	None/ None/ 2B.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland; sandy, gravelly/perennial herb/(July)Aug–Nov(Dec)/0–6890	Habitat Present	Present. The BSA contains suitable chaparral, coastal scrub, and riparian woodland habitat for this species, and this species was observed during the May and July 2019 focused special-status plant surveys throughout the BSA within Castaic Creek (Figure 4). Approximately 223 individuals were observed. The closest CNDDB occurrence is located approximately 0.6-mile southwest of the BSA (CDFW 2019a).

Table 2
Special-Status Plant Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present / Absent	Potential to Occur
Senecio aphanactis	chaparral ragwort	None/ None/ 2B.2	Chaparral, Cismontane woodland, Coastal scrub; sometimes alkaline/annual herb/Jan–Apr(May)/45–2625	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral and coastal scrub habitat for this species, the closest documented occurrence is over 3 miles southeast of the BSA near Saugus (CDFW 2019a). Additionally, this element occurrence dates back to 1901, where much development has occurred since date of collection (CDFW 2019a).
Streptanthus campestris	southern jewelflower	None/ None/ 1B.3	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland; rocky/perennial herb/(Apr)May–July/2950–7545	Absent	Not expected to occur. The BSA is located outside of the species' known elevation range.
Stylocline masonii	Mason's neststraw	None/ None/ 1B.1	Chenopod scrub, Pinyon and juniper woodland; sandy/ annual herb/Mar–May/325–3935	Absent	Not expected to occur. The BSA lacks suitable habitat (i.e., chenopod scrub, pinyon and juniper woodland) for this species.
Symphyotrichum greatae	Greata's aster	None/ None/ 1B.3	Broad-leafed upland forest, Chaparral, Cismontane woodland, Lower montane coniferous forest, Riparian woodland; mesic/perennial rhizomatous herb/June–Oct/980–6595	Habitat Present	Low potential to occur. Although the BSA contains suitable chaparral and riparian woodland habitat for this species, the closest documented occurrence is over 10 miles north of the BSA in the Liebre Mountains (CDFW 2019a).

[1] Vicinity refers to records reported within the USGS 7.5-minute Newhall quadrangle and eight surrounding quadrangles (i.e., Whitaker Peak, Warm Springs Mountain, Green Valley, Val Verde, Mint Canyon, Santa Susana, Oat Mountain, San Fernando)

Habitat

Absent: No habitat present and no further work needed.
Habitat Present: Habitat is, or may be present. The species may be present.
Present: The species is present.
Critical Habitat: The project footprint is located within a designated critical habitat unit, but does not necessarily mean that appropriate habitat is present.

Status

FE: Federally Endangered
FT: Federally Threatened
FC: Federal Candidate
SE: State Endangered
ST: State Threatened

SR: State Rare
California Rare Plant Rank (CRPR)–
1A: Plants presumed Extirpated in California and either rare or extinct elsewhere
1B: Plants rare, threatened, or endangered in California and elsewhere
2A: Plants presumed extirpated in California, but more common elsewhere
2B: Plants rare, threatened, or endangered in California, but more common elsewhere
.1 Seriously threatened in California (> 80% of occurrences threatened / high degree and immediacy of threat)
.2 Moderately threatened in California (20-80% of occurrences threatened / moderate degree and immediacy of threat)
.3 Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

SPECIAL-STATUS WILDLIFE

Forty-one special-status wildlife species are reported to occur within the USGS 7.5-minute *Newhall* quadrangle and surrounding eight 7.5-minute quadrangles (*Whitaker Peak*, *Warm Springs Mountain*, *Green Valley*, *Val Verde*, *Mint Canyon*, *Santa Susana*, *Oat Mountain*, *San Fernando*) (CDFW 2019a; USFWS 2019). Sixteen of these species are federally- and/or State- listed (or proposed for listing) as endangered or threatened species, including the following nine species from the USFWS IPaC Trust Resource List (USFWS 2019): federally and state endangered California condor (*Gymnogyps californianus*), federally threatened coastal California gnatcatcher, federally and State endangered least Bell's vireo, federally and State endangered southwestern willow flycatcher, federally endangered arroyo toad, federally threatened California red-legged frog, federally and State endangered unarmored threespine stickleback, federally threatened vernal pool fairy shrimp (*Branchinecta lynchi*), and federally endangered Riverside fairy shrimp (*Streptocephalus woottoni*).

Potential habitat was determined to be absent for 19 species. Of the 22 species determined to have potential habitat present, three of these species were determined to have a moderate potential to occur: southern California legless lizard (*Anniella stebbinsi*; SSC), arroyo toad, and western red bat (*Lasiurus blossevillii*; SSC). However, arroyo toad and western red bat were determined to be absent from the BSA as a result of focused species surveys and are not expected to occur. Additionally, Southern California legless lizard was not observed during surveys for other special-status species in the BSA and is presumed absent from the BSA. All 37 special-status wildlife species, their habitat requirements, regulatory status, presence of habitat within the BSA, and their potential to occur are discussed below in Table 3.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Amphibians					
Anaxyrus californicus	arroyo toad	FE/SSC	Semi-arid areas near washes, sandy riverbanks, riparian areas, palm oasis, Joshua tree, mixed chaparral and sagebrush; stream channels for breeding (typically third order); adjacent stream terraces and uplands for foraging and wintering	Critical Habitat	Not expected to occur. The closest CNDDB occurrence is located approximately 2.5 miles southeast of the project site (CDFW 2019a). Arroyo toad was not observed within the BSA during focused surveys for the species in 2019. Therefore, this species is determined to be absent from the BSA.
Rana boylii	foothill yellow-legged frog	None/ SSC, PST	Rocky streams and rivers with open banks in forest, chaparral, and woodland	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA. Additionally, the BSA is located outside of this species' known range.
Rana draytonii	California red-legged frog	FT/SSC	Lowland streams, wetlands, riparian woodlands, livestock ponds; dense, shrubby or emergent vegetation associated with deep, still or slow-moving water; uses adjacent uplands	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA.
Rana muscosa	mountain yellow-legged frog	FE/SE	Lakes, ponds, meadow streams, isolated pools, and open riverbanks; rocky canyons in narrow canyons and in chaparral	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA.
Spea hammondii	western spadefoot	None/ SSC	Primarily grassland and vernal pools, but also in ephemeral wetlands that persist at least 3 weeks in chaparral, coastal scrub, valley–foothill	Habitat Present	Low potential to occur. Although the BSA contains suitable habitat for this species, this species was not observed during the protocol-level arroyo toad survey conducted within

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
			woodlands, pastures, and other agriculture		suitable habitat for this species. The closest CNDDB occurrence is located approximately 1 mile southwest of the project site (CDFW 2019a).
Taricha torosa (Monterey Co. south only)	California newt	None/ SSC	Wet forests, oak forests, chaparral, and rolling grassland	Absent	Not expected to occur. The BSA lacks suitable habitat (i.e., mesic forests, chaparral, and grasslands) for this species.
			Reptiles		
Actinemys marmorata	western pond turtle	None/ SSC	Slow-moving permanent or intermittent streams, ponds, small lakes, and reservoirs with emergent basking sites; adjacent uplands used for nesting and during winter	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat suitable for this species. Streams and ponds are limited and primarily ephemeral within the BSA. The closest CNDDB occurrence is located approximately 1.1 air miles south of the project site in the Santa Clara River (CDFW 2019a).
Anniella sp.	California legless lizard	None/ SSC	Coastal dunes, stabilized dunes, beaches, dry washes, valley–foothill, chaparral, and scrubs; pine, oak, and riparian woodlands; associated with sparse vegetation and moist sandy or loose, loamy soils	Habitat Present	Not expected to occur. Riparian habitat within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 1.7 miles northeast of the project site (CDFW 2019a).
Arizona elegans occidentalis	California glossy snake	None/ SSC	Commonly occurs in desert regions throughout southern California. Prefers open sandy areas with scattered brush. Also found in rocky areas.	Habitat Present	Not expected to occur. Open shrub habitat with sandy soils within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 1.5 miles southeast of the project site (CDFW 2019a).

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Aspidoscelis tigris stejnegeri	coastal whiptail	None/ SSC	Hot and dry areas with sparse foliage, including chaparral, woodland, and riparian areas.	Habitat Present	Not expected to occur. Scrub and riparian habitat within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 1 mile south of the project site (CDFW 2019a).
Phrynosoma blainvillii	Blainville's horned lizard	None/ SSC	Open areas of sandy soil in valleys, foothills, and semi-arid mountains including coastal scrub, chaparral, valley–foothill hardwood, conifer, riparian, pine–cypress, juniper, and annual grassland habitats	Habitat Present	Not expected to occur. Open areas with loose sandy soils within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 1 mile south of the project site (CDFW 2019a).
Thamnophis hammondii	two-striped gartersnake	None/ SSC	Streams, creeks, pools, streams with rocky beds, ponds, lakes, vernal pools	Habitat Present	Low potential to occur. Although creek habitat pooling occur within the BSA, they are primarily ephemeral and too minimal to support this species. The closest CNDDB occurrence is located approximately 5.9 miles southwest of the project site within the Santa Clara River (CDFW 2019a).
Birds					
Ammodramus savannarum (nesting)	grasshopper sparrow	None/ SSC	Nests and forages in moderately open grassland with tall forbs or scattered shrubs used for perches	Absent	Low potential to occur. The grassland habitat within the BSA is too minimal and disturbed to provide suitable habitat for this species.
Athene cunicularia (burrow sites & some wintering sites)	burrowing owl	None/ SSC	Nests and forages in grassland, open scrub, and agriculture, particularly with ground squirrel burrows	Absent	Not expected to occur. The BSA does not contain suitable habitat (i.e., open flat areas) for this species. There are no recorded occurrences of this species within 5 miles of the BSA.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Buteo swainsoni (nesting)	Swainson's hawk	None/ST	Nests in open woodland and savanna, riparian, and in isolated large trees; forages in nearby grasslands and agricultural areas such as wheat and alfalfa fields and pasture	Absent	Not expected to occur. The BSA is too heavily urbanized to provide suitable foraging or nesting habitat for this species. In addition, the current range for this species within Los Angeles County is limited to Antelope Valley (Allen et al. 2016). Although this species has a known occurrence within 5 miles of the study area, this collection dates back to 1898 and is considered extirpated (CDFW 2019a).
Coccyzus americanus occidentalis (nesting)	western yellow-billed cuckoo	FT/SE	Nests in dense, wide riparian woodlands and forest with well-developed understories	Absent	Not expected to nest. May occasionally pass through during migration. The BSA lacks wide riparian woodlands or forest with well-developed understories suitable for this species.
Elanus leucurus (nesting)	white-tailed kite	None/FP	Nests in woodland, riparian, and individual trees near open lands; forages opportunistically in grassland, meadows, scrubs, agriculture, emergent wetland, savanna, and disturbed lands	Habitat Present	Not expected to occur. This species was observed perched within riparian habitat during the arroyo toad survey conducted for the project approximately 0.6-mile southeast of the project site. The BSA contains large trees in riparian habitat with nearby open lands that could provide suitable nesting and foraging habitat for this species. The closest CNDDB occurrence is located approximately 2.8 miles southeast of the project site (CDFW 2019a).

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Empidonax traillii extimus (nesting)	southwestern willow flycatcher	FE/SE	Nests in dense riparian habitats along streams, reservoirs, or wetlands; uses variety of riparian and shrubland habitats during migration	Critical Habitat	Low potential to nest. This species was not observed during focused protocol surveys conducted in 2019. Therefore, this species is currently considered absent from the BSA.
Gymnogyps californianus	California condor	FE/SE, FP	Nests in rock formations, deep caves, and occasionally in cavities in giant sequoia trees (Sequoiadendron giganteus); forages in relatively open habitats where large animal carcasses can be detected	Absent	Not expected to nest, low potential to forage. The BSA is too heavily urbanized to provide suitable foraging or nesting habitat for this species.
Icteria virens (nesting)	yellow-breasted chat	None/ SSC	Nests and forages in dense, relatively wide riparian woodlands and thickets of willows, vine tangles, and dense brush	Absent	Not expected to nest. May occasionally pass through during migration. The BSA lacks wide, dense riparian woodlands or thickets suitable for this species.
Lanius ludovicianus (nesting)	loggerhead shrike	None/ SSC	Nests and forages in open habitats with scattered shrubs, trees, or other perches	Habitat Present	Not expected to occur. Open shrublands and woodlands within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 3.2 miles northeast of the project site (CDFW 2019a).
Polioptila californica californica	coastal California gnatcatcher	FT/SSC	Nests and forages in various sage scrub communities, often dominated by California sagebrush and buckwheat; generally avoids nesting in areas with a slope of greater than 40%; majority of nesting at less than	Absent	Not expected to occur. The coastal sage scrub habitat within the BSA is too minimal and isolated by surrounding development to provide suitable habitat for this species.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
			1,000 feet above mean sea level		
Riparia riparia (nesting)	bank swallow	None/ST	Nests in riparian, lacustrine, and coastal areas with vertical banks, bluffs, and cliffs with sandy soils; open country and water during migration	Absent	Not expected to occur. The BSA lacks suitable habitat (i.e., sandy banks, bluffs, cliffs) for this species. Additionally, this species is considered extirpated from the southern California region (CDFW 2019a).
Setophaga petechia (nesting)	yellow warbler	None/ SSC	Nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed-conifer habitats	Habitat Present	Present. This species was observed singing in riparian habitat within the BSA during surveys conducted for the project.
Vireo bellii pusillus (nesting)	least Bell's vireo	FE/SE	Nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams; forages in riparian and adjacent shrubland late in nesting season	Habitat Present	Not expected to occur. Least Bell's vireo was not observed within the BSA during focused protocol surveys conducted for the species. Therefore, this species is currently considered absent from the BSA.
Fishes					
Catostomus santaanae	Santa Ana sucker	FT/None	Small, shallow, cool, clear streams less than 7 meters (23 feet) in width and a few centimeters to more than a meter (1.5 inches to more than 3 feet) in depth; substrates are generally coarse gravel, rubble, and boulder	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA.
Gasterosteus aculeatus williamsoni	unarmored threespine stickleback	FE/SE, FP	Slow-moving and backwater areas	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Gila orcuttii	arroyo chub	None/ SSC	Warm, fluctuating streams with slow-moving or backwater sections of warm to cool streams at depths >40 centimeters (16 inches); substrates of sand or mud	Absent	Not expected to occur. The BSA lacks permanent aquatic habitat required for this species. Streams and ponds are limited and primarily ephemeral within the BSA.
Rhinichthys osculus ssp. 3	Santa Ana speckled dace	None/ SSC	Headwaters of the Santa Ana and San Gabriel Rivers; may be extirpated from the Los Angeles River system	Absent	Not expected to occur. The BSA is located within Castaic Creek, a tributary to the Santa Clara River system; thus, located outside of the known range for this species.
			Mammals		
Antrozous pallidus	pallid bat	None/ SSC	Grasslands, shrublands, woodlands, forests; most common in open, dry habitats with rocky outcrops for roosting, but also roosts in man-made structures and trees	Habitat Present	Not expected to occur. However, this species is not expected to roost within the Bridge but may roost within the riparian woodland located in the southern portion of the BSA. May forage throughout the BSA, however, pallid bat was not observed or detected within the BSA during focused surveys.
Corynorhinus townsendii	Townsend's big-eared bat	None/ SSC	Mesic habitats characterized by coniferous and deciduous forests and riparian habitat, but also xeric areas; roosts in limestone caves and lava tubes, man-made structures, and tunnels	Absent	Not expected to roost within the BSA, particularly within the Bridge due to the regular amount of human disturbances from the I-5 freeway. This species was not observed or detected during focused bat surveys.
Euderma maculatum	spotted bat	None/ SSC	Foothills, mountains, desert regions of southern California, including arid deserts, grasslands, and mixed-conifer forests; roosts in rock crevices and cliffs; feeds over	Absent	Not expected to occur. This species typically inhabits woodland areas in higher elevation sites with canyons and cliff faces. This species was not observed or detected during focused bat surveys.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
			water and along washes		
Eumops perotis californicus	western mastiff bat	None/ SSC	Chaparral, coastal and desert scrub, coniferous and deciduous forest and woodland; roosts in crevices in rocky canyons and cliffs where the canyon or cliff is vertical or nearly vertical, trees, and tunnels	Absent	Not expected to roost, may occasionally forage. This species occurs in the region but in habitats that are in upland scrub and chaparral with open areas for foraging.
Lepus californicus bennettii	San Diego black-tailed jackrabbit	None/ SSC	Arid habitats with open ground; grasslands, coastal scrub, agriculture, disturbed areas, and rangelands	Habitat Present	Moderate potential to occur. Shrublands in the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 4.6 miles northeast of the project site (CDFW 2019a).
Macrotus californicus	Californian leaf-nosed bat	None/ SSC	Riparian woodlands, desert wash, desert scrub; roosts in mines and caves, occasionally buildings	Habitat Present	Low potential to roost. While riparian habitats occur within the BSA, there are a lack of crevices and open areas for foraging to support this species on the site. This species was not observed or detected during focused bat surveys.
Neotoma lepida intermedia	San Diego desert woodrat	None/ SSC	Coastal scrub, desert scrub, chaparral, cacti, rocky areas	Habitat Present	Moderate potential to occur. Shrublands and rocky areas within the BSA could provide suitable habitat for this species. The closest CNDDB occurrence is located approximately 9 miles southeast of the project site (CDFW 2019a).

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Onychomys torridus ramona	southern grasshopper mouse	None/ SSC	Grassland and sparse coastal scrub	Habitat Present	Low potential to occur. Minimal coastal scrub or grassland habitat within the BSA is too disturbed and/or isolated by surrounding urban development to provide suitable habitat for this species. Additionally, the closest CNDDB occurrence is located over 10 miles from the project site (CDFW 2019a).
Taxidea taxus	American badger	None/ SSC	Dry, open, treeless areas; grasslands, coastal scrub, agriculture, and pastures, especially with friable soils	Habitat Present	Low potential to occur. The minimal coastal scrub, and grasslands within the BSA is too disturbed and isolated by urban development to provide suitable habitat for this species. Additionally, suitable burrows for this species were not detected during surveys conducted for the project. The closest CNDDB occurrence is approximately 1 mile south of the project site (CDFW 2019a).
Invertebrates					
Branchinecta lynchi	vernal pool fairy shrimp	FT/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	Absent	Not expected to occur. The BSA lacks vernal pools to provide suitable habitat for this species.

Table 3
Special-Status Wildlife Species Potentially Occurring or Known to Occur in the Project Vicinity[1]

Scientific Name	Common Name	Status Federal/ State/ CRPR	General Habitat Description	Habitat Present/ Absent	Rationale
Euphydryas editha quino	quino checkerspot butterfly	FE/None	Annual forblands, grassland, open coastal scrub and chaparral; often soils with cryptogamic crusts and fine-textured clay; host plants include Plantago erecta, Antirrhinum coulterianum, and Plantago patagonica (Silverado Occurrence Complex)	Absent	Not expected to occur. Although a host plant for this species (i.e., *Antirrhinum coulterianum*) was identified within the BSA, this species is considered extirpated from Los Angeles County (CDFW 2019a). The closest CNDDB occurrence, located approximately 8.9 miles east of the project, dates back to 1920 and is considered extirpated (CDFW 2019a).
Streptocephalus woottoni	Riverside fairy shrimp	FE/None	Vernal pools, seasonally ponded areas within vernal swales, and ephemeral freshwater habitats	Absent	Not expected to occur. The BSA lacks vernal pools to provide suitable habitat for this species.

[1] Vicinity refers to records reported within the USGS 7.5-minute Newhall quadrangle and eight surrounding quadrangles (i.e., Whitaker Peak, Warm Springs Mountain, Green Valley, Val Verde, Mint Canyon, Santa Susana, Oat Mountain, San Fernando)

Habitat

Absent: No habitat present and no further work needed.
Habitat Present: Habitat is, or may be present. The species may be present.
Present: The species is present.
Critical Habitat: The project footprint is located within a designated critical habitat unit, but does not necessarily mean that appropriate habitat is present.

Status

FE: Federally Endangered
FT: Federally Threatened
FC: Federal Candidate
SE: State Endangered
ST: State Threatened
PST: Proposed State Threatened
FP: CDFW California Fully Protected
SSC: CDFW California Species of Special Concern

Natural Communities of Special Concern

Twelve natural communities of special concern are reported to occur within the USGS 7.5-minute topographic quadrangle for *Newhall, California* and the surrounding eight quadrangles (*Whitaker Peak*, *Warm Springs Mountain*, *Green Valley*, *Val Verde*, *Mint Canyon*, *Santa Susana*, *Oat Mountain*, *San Fernando*): California walnut woodland, cismontane alkali marsh, mainland cherry forest, Riversidian alluvial fan sage scrub, Southern California threespine stickleback stream, southern coast live oak riparian forest, southern cottonwood willow riparian forest, southern mixed riparian forest,

southern riparian scrub, southern sycamore alder riparian woodland, southern willow scrub, and valley oak woodland (CDFW 2019a; Table 4). One natural community of special concern, southern cottonwood willow riparian forest, overlaps with the BSA for the project.

Table 4
Natural Communities of Special Concern Known to Occur in the Project Vicinity[1]

Natural Community Name	Status Global/State Rank	Habitat Present/Absent
California Walnut Woodland	G2/S2.1	Absent
Cismontane Alkali Marsh	G1/S1.1	Absent
Mainland Cherry Forest	G1/S1.1	Absent
Riversidian Alluvial Fan Sage Scrub	G1/S1.1	Absent
Southern California Threespine Stickleback Stream	GNR/SNR	Absent
Southern Coast Live Oak Riparian Forest	G4/S4	Absent
Southern Cottonwood Willow Riparian Forest	G3/S3.2	Present
Southern Mixed Riparian Forest	G2/S2.1	Absent
Southern Riparian Scrub	G3/S3.2	Absent
Southern Sycamore Alder Riparian Woodland	G4/S4	Absent
Southern Willow Scrub	G3/S.1	Absent
Valley Oak Woodland	G3/S2.1	Absent

[1] Vicinity refers to records reported within the USGS 7.5-minute Newhall quadrangle and eight surrounding quadrangles (i.e., Whitaker Peak, Warm Springs Mountain, Green Valley, Val Verde, Mint Canyon, Santa Susana, Oat Mountain, San Fernando)

Habitat
Absent: No habitat present and no further work needed.
Present: The species is present.

Status
Global/State Rank –
G1 or S1: Critically Imperiled, at very high risk of extinction or elimination due to very restricted range, very few populations or occurrences, very steep declines, very severe threats, or other factors.
G2 or S2: Imperiled, at high risk of extinction or elimination due to restricted range, few populations or occurrences, steep declines, sever threats, or other factors.
G3 or S3: Vulnerable, at moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.
G4 or S4: Apparently Secure, at fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats or other factors.
G5 or S5: Secure, at very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats.
0.1: Very threatened
0.2: Threatened
0.3: No current threat known
GNR or SNR: Unranked, global or state rank not yet assessed.

CRITICAL HABITAT

Based on a review of the USFWS Critical Habitat viewer, the BSA occurs within critical habitat for the arroyo toad and the southwestern willow flycatcher (USFWS 2019a). Critical habitat for both species are mapped within Castaic Creek immediately southeast of The Old Road Over Castaic Creek bridge and extends further southeast into Santa Clara River.

Additionally, critical habitat for the least Bell's vireo occurs approximately 0.6-mile southwest of the BSA within the Santa Clara River.

REGULATORY WATERS

The BSA contains jurisdictional waters of the U.S. and State as The Old Road Bridge spans over the earthen-bottom Castaic Creek that conveys scheduled dam release flows from Castaic Lake, as well as stormwater flows, downstream towards the Santa Clara River, a relatively permanent water (RPW) that directly drains into the Pacific Ocean, a traditional navigable water (TNW). Castaic Creek is an ephemeral stream that originates from Castaic Lake and terminates approximately 2.55 miles downstream of the bridge at the Santa Clara River, and continues in a southwestern direction. The width of the channel within the BSA ranges from approximately 19 to 102 feet wide. Flows were very high at the time of the survey. Castaic Creek is controlled by a dam upstream at Castaic Lake. Water flows approximately three to five months out of the year, between January and May, when water is released from Castaic Dam. Castaic Creek also receives perennial surface runoff through culverts from surrounding development. Castaic Creek would be subject to jurisdiction under the USACE, RWQCB, and CDFW.

Additionally, two unnamed drainages occur within the BSA that could be potentially jurisdictional (Figure 4). Unnamed Drainage 1 is an earthen drainage located on the west side of Castaic Creek on the south side of The Old Road bridge. A culvert at The Old Road bridge transports continuous urban runoff into the drainage, which terminates approximately 290 feet downstream at Castaic Creek. The width of the drainage ranges from approximately three feet to 10 feet wide. Unnamed Drainage 1 is potentially subject to jurisdiction under the USACE, RWQCB, and CDFW. Unnamed Drainage 2 is an earthen drainage located on the west side of Castaic creek and approximately 485 feet south of The Old Road bridge. A concrete levee borders the drainage on the west side. A culvert under the levee transports runoff into the drainage, which terminates approximately 385 feet downstream at Castaic Creek. The width of the drainage is approximately 15 feet. Unnamed Drainage 2 is potentially under jurisdiction of the USACE, RWQCB, and CDFW.

Chapter 4 – Results: Biological Resources, Discussion of Impacts and Mitigation

Habitats and Natural Communities of Special Concern

Vegetation communities were mapped following A Manual of California Vegetation, 2nd Edition (Sawyer et al. 2009). Based on this classification system, 12 vegetation communities and land covers are identified and mapped within the BSA for the project: annual brome grasslands, arroyo willow thickets, California sagebrush scrub, Fremont cottonwood-red willow forest, giant reed breaks, narrow cattail-salt grass marshes, scale broom-mulefat scrub, tamarisk thickets, thick-leaf yerba santa scrub, disturbed habitat, open water, and urban/developed land. Communities that did not conform to A Manual of California Vegetation, 2nd Edition, were mapped according to their dominant characteristics. The vegetation communities and land covers within the BSA are cumulatively listed below in Table 5 along with their acreages, and their spatial coverage depicted on Figure 3. Each individual vegetation community and land cover is described further detail below.

Table 5
Vegetation Communities and Land Cover Types in the BSA

Vegetation Community/Land Cover	Status Global/State Rank	Acreage within the BSA
Native or Naturalized Vegetation Communities		
Annual Brome Grasslands (ABG)	GNR/SNR	1.79
Scale Broom-Mulefat Scrub (Lepsqu-Bacsal)	G3S3	1.52
Arroyo Willow Thickets (Sallas)	G4S4	1.44
Thick Leaf Yerba Santa Scrub (TLYSS)	G3S3	0.77
Fremont Cottonwillow-Red Willow Forest (Popfre-Sallae)	G4S3.2	0.43
Tamarisk Thickets (TAM)	GNR/SNR	0.36
California Sagebrush Scrub (Artcal)	G5S5	0.14
Giant Reed Breaks (GR)	GNR/SNR	0.08
Cattail-Salt Grass Marshes	G5S5	0.05
Open Water (OW)	GNR/SNR	1.26
	Subtotal	*7.84*
Non-Natural Land Covers		
Urban/Developed (DEV)	GNR/SNR	16.20
Disturbed Habitat (DH)	GNR/SNR	3.11
	Subtotal	*19.31*
	TOTAL	**27.15**[1]

[1]Totals may not sum due to rounding.

Status

Global/State Rank –

G3 or S3: Vulnerable, at moderate risk of extinction or elimination due to a fairly restricted range, relatively few populations or occurrences, recent and widespread declines, threats, or other factors.

G4 or S4: Apparently Secure, at fairly low risk of extinction or elimination due to an extensive range and/or many populations or occurrences, but with possible cause for some concern as a result of local recent declines, threats or other factors.

G5 or S5: Secure, at very low risk of extinction or elimination due to a very extensive range, abundant populations or occurrences, and little to no concern from declines or threats.

0.2: Threatened

GNR or SNR: Unranked, global or state rank not yet assessed.



Biological Study Area
Permanent Impact Area
Temporary Impact Area

Vegetation
ABG: Annual brome grasslands
Artcal: California sagebrush
DEV: Urban/Developed
DH: Disturbed Habitat
GR: Giant reed
LB: Scale broom-mulefat
OW: Open water
PS: Fremont cottonwood-red willow
Sallas: Arroyo willow
TAM: Tamarisk thickets
TD: Narrowleaf cattail-salt grass
TLYSS: Thick leaf yerba santa scrub

SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 87.5 175 Feet

FIGURE 3
Vegetation
The Old Road Over Castaic Creek Project

NATIVE OR NATURALIZED VEGETATION COMMUNITIES

Annual Brome Grasslands Semi-Natural Alliance

Annual brome grasslands semi-natural alliance communities include purple false brome (*Brachypodium distachyon*), ripgut brome (*Bromus diandrus*), or soft brome (*Bromus hordeaceus*) as dominant or co-dominant with other non-native plant species in the herbaceous layer. Herbaceous cover can be intermittent to continuous less than 75 centimeters (30 inches) in height (Sawyer et al. 2009).

Annual brome grasslands are found in upland areas adjacent to disturbed habitat or developed land. This vegetation community does not have a global or state rarity ranking and is not considered sensitive by state and/or federal agencies.

Scale Broom-Mulefat Scrub Alliance

Scale broom-mulefat scrub alliance communities include scale broom (*Lepidospartum squamatum*) as the dominant or co-dominant shrub in the canopy. Scale broom-mulefat scrub has an open to continuous shrub canopy less than 2 meters (7 feet) in height with a variable ground layer that may be grassy (Sawyer et al. 2009). Species associated with the scale broom-mulefat scrub alliance include burrobrush (*Ambrosia salsola*), coastal sage brush (*Artemisia californica*), mulefat (*Baccharis salicifolia*), bladderpod (*Cleome isomeris*), California cholla (*Cylindropuntia californica*), brittlebush (*Encelia farinosa*), thick-leaved yerba santa (*Eriodictyon crassifolium*), hairy yerba santa (*Eriodictyon trichocalyx*), California buckwheat (*Eriogonum fasciculatum*), chaparral yucca (*Hesperoyucca whipplei*), deerweed (*Acmispon glaber*), laurel sumac (*Malosma laurina*), prickly pear (*Opuntia littoralis*), lemonade berry (*Rhus integrifolia*), sugar bush (*Rhus ovata*), fragrant sumac (*Rhus trilobata*), and poison oak (*Toxicodendron diversilobum*) (Sawyer et al. 2009).

Scale broom-mulefat scrub in the BSA is located northeast of The Old Road bridge within the Castaic Creek channel. California buckwheat scrub alliance has a rank of G3S3, which means it is vulnerable globally and within California. This vegetation community is considered sensitive by state and federal agencies.

Arroyo Willow Thickets Alliance

Arroyo willow thickets alliance communities include arroyo willow as the dominant or co-dominant shrub in the canopy. Arroyo willow thickets have an open to continuous shrub or tree canopy less than 10 meters (33 feet) in height with a variable herbaceous layer (Sawyer et al. 2009). Species associated with the arroyo willow thickets alliance include bigleaf maple (*Acer macrophyllum*), coyote brush (*Baccharis pilularis*), mulefat, common buttonbush (*Cephalanthus occidentalis*), American dogwood (*Cornus sericea*), California wax myrtle (*Morella californica*), California sycamore (*Platanus racemosa*), southern cottonwood (*Populus fremontii*), black cottonwood (*Populus trichocarpa*), willow (*Salix* spp.) and blue elderberry (*Sambucus nigra*) (Sawyer et al. 2009).

Arroyo willow thickets in the BSA is located southwest of The Old Road bridge along the northern bank of Castaic Creek. Arroyo willow thickets alliance has a rank of G4S4, which means it is apparently secure globally and within California. This vegetation community is not considered sensitive by state and/or federal agencies.

Thick Leaf Yerba Santa Scrub Alliance

Thick leaf yerba santa scrub alliance communities include thick leaf yerba santa as the dominant or co-dominant shrub in the canopy. Thick leaf yerba santa scrub has an intermittent and sometimes two-tiered shrub canopy less than 3 meters (10 feet) in height with an open herbaceous layer (Sawyer et al. 2009). Species associated with the thick leaf yerba santa scrub alliance include chamise (*Adenostoma fasciculatum*), red shanks (*Adenostoma sparsifolium*), California buckwheat, sugar bush, fragrant sumac, and black sage (*Salvia mellifera*) (Sawyer et al. 2009).

Thick leaf yerba santa scrub in the BSA is located northeast of The Old Road bridge and I-5 freeway within the Castaic Creek channel. Thick leaf yerba santa scrub alliance has a rank of G3S3, which means it is vulnerable globally and within California. This vegetation community is considered sensitive by state and federal agencies.

Fremont Cottonwood-Red Willow Forest Alliance

Fremont cottonwood-red willow forest alliance communities include Fremont cottonwood and red willow (*Salix laevigata*) as the co-dominant trees in the canopy. Fremont cottonwood-red willow forest has a continuous to open tree canopy less than 25 meters (82 feet) in height with a variable herbaceous layer and intermittent to open shrub layer (Sawyer et al. 2009). Species associated with the Fremont cottonwood-red willow forest alliance include box elder (*Acer negundo*), desert baccharis (*Baccharis sergiloides*), Oregon ash (*Fraxinus latifolia*), Northern California black walnut (*Juglans hindsii*), California sycamore, coast live oak (*Quercus agrifolia*), sandbar willow (*Salix exigua*), Gooding's willow (*Salix gooddingii*), arroyo willow (*Salix lasiolepis*), Pacific willow (*Salix lucida* ssp. *lasiandra*) and yellow willow (*Salix lutea*) (Sawyer et al. 2009).

Fremont cottonwood-red willow forest in the BSA is located southwest of The Old Road bridge along the northern bank of Castaic Creek. California buckwheat scrub alliance has a rank of G4S3.2, which means it is apparently secure globally and vulnerable within California. This vegetation community is considered sensitive by state agencies.

Tamarisk Thickets Semi-Natural Alliance

Tamarisk thickets semi-natural alliance communities include salt cedar (*Tamarix ramosissima*) or other *Tamarix* species as the dominant shrub in the canopy. Tamarisk thickets have a continuous or open shrub canopy less than 8 meters (26 feet) in height with a sparse herbaceous layer (Sawyer et al. 2009). Species associated with the tamarisk thickets semi-natural alliance include southern cottonwood or *Salix* spp. (Sawyer et al. 2009).

Tamarisk thickets in the BSA are located immediately southwest of The Old Road bridge within the Castaic Creek channel. Tamarisk thickets semi-natural alliance does not have a global or state rarity ranking and is not considered sensitive by state and/or federal agencies.

California Sagebrush Scrub Alliance

California sagebrush scrub alliance communities includes California sagebrush as the dominant or co-dominant shrub in the canopy. California sagebrush scrub has an intermittent to continuous shrub canopy less than 2 meters (7 feet) in height with a variable

herbaceous layer (Sawyer et al. 2009). Species associated with the thick leaf yerba santa scrub alliance include chamise, coyote brush, bladderpod, sticky monkeyflower (*Diplacus aurantiacus*), bush sunflower (*Encelia californica*), brittlebush, California buckwheat, chaparral yucca, white-flowered goldenbush (*Isocoma menziesii*), heart leaved keckiella (*Keckiella cordifolia*), deerweed, prickly pear, lemonade berry, white sage (*Salvia apiana*), *Salvia leucophylla*, black sage, blue elderberry, and poison oak (Sawyer et al. 2009).

California sagebrush scrub in the BSA is located southwest of The Old Road bridge at the top of the bank of Castaic Creek. California sagebrush scrub alliance has a rank of G5S5, which means it is secure globally and within California. This vegetation community is not considered sensitive by state and federal agencies.

Giant Reed Breaks Semi-Natural Alliance

Giant reed breaks semi-natural alliance communities include Arundo donax or Phragmites australis as the dominant species in the herbaceous layer. Giant reed breaks have continuous cover less than eight meters (26 feet) in height (Sawyer et al. 2009). Species associated with the tamarisk thickets semi-natural alliance include ragweed (*Ambrosia psilostachya*), yerba mansa (*Anemopsis californica*), salt grass (*Distichlis spicata*), jointed rush (*Juncus arcticus*), Cooper's rush (*Juncus cooperi*), perennial pepperweed (*Lepidium latifolium*), hardstem bulrush (*Schoenoplectus acutus*), chairmaker's bulrush (*Schoenoplectus americanus*), bulrush (*Schoenoplectus californicus*), cattail (*Typha* spp.), and cocklebur (*Xanthium strumarium*) (Sawyer et al. 2009).

Giant reed breaks in the BSA are located southwest of The Old Road bridge along the northern bank of Castaic Creek. Giant reed breaks semi-natural alliance does not have a global or state rarity ranking and is not considered sensitive by state and/or federal agencies.

Cattail-Salt Grass Marshes Alliance

Cattail-salt grass marshes alliance communities include cattails (*Typha angustifolia*, *T. domingensis*, and *T. latifolia*) as co-dominant in the herbaceous layer with salt grass. Cattail-salt grass marshes have intermittent to continuous cover less than 1.5 meters (5 feet) in height (Sawyer et al. 2009). Other species associated with the cattail-salt grass marshes alliance include redtop (*Agrostis stolonifera*), silverweed (*Argentina egedii*), *Cyperus* spp., barnyard grass (*Echinochloa crus-galli*), spike rush (*Eleocharis macrostachya*), giant horsetail (*Equisetum telmateia*), *Juncus* spp., least duckweed (*Lemna minuta*), perennial pepperweed, water parsley (*Oenanthe sarmentosa*), common knotweed (*Persicaria lapathifolia*), dotted smartweed (*Persicaria punctata*), common reed (*Phragmites australis*), chairmaker's bulrush, bulrush, and cocklebur. (Sawyer et al. 2009).

Cattail-salt grass marshes in the BSA is located southwest of The Old Road bridge within a concrete-lined channel that feeds into Castaic Creek. Cattail-salt grass marshes alliance has a rank of G5S5, which means it is secure globally and within California. This vegetation community is not considered sensitive by state agencies.

NON-NATURAL LAND COVERS

Urban/Developed

Urban/developed land refers to areas that have been constructed upon or disturbed so severely that native vegetation is no longer supported (Holland 1986). Developed land includes areas with permanent or semi-permanent structures, pavement or hardscape, landscaped areas, and areas with a large amount of debris or other materials (Holland 1986). Developed areas are generally graded and compacted, sometimes covered with gravel road base or built, and have little to no vegetation present. Developed land dominates the majority of the BSA for the project and refers to those areas supporting manmade structures or features including paved/compacted roadways, driveways, parking lots, residences, and commercial or industrial buildings. These areas support limited natural ecological processes, native vegetation, or habitat for wildlife species and thus are not considered sensitive by local, state, and/or federal agencies.

Disturbed Habitat

The disturbed mapping unit is not recognized by the Natural Communities List (CDFG 2018), but is described by Jones & Stokes (1993). Disturbed habitat refers to areas that experience or have experienced high levels of human disturbance and as a result are generally lacking vegetation. Areas mapped as disturbed land may include unpaved roads and graded areas. Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species such as Maltese star-thistle (*Centaurea melitensis*), wild oat (*Avena fatua*), black mustard (*Brassica nigra*), spiny sowthistle (*Sonchus asper*), and prickly lettuce (*Lactuca serriola*) (Jones & Stokes 1993). Within the BSA, disturbed land includes dirt roads and bare, open areas with minimal vegetative cover.

Open Water

The open water mapping unit is not recognized by the Natural Communities List (CDFG 2018), but is described by Jones and Stokes (1993). Open water consists of standing water with no emergent vegetation in the form of lakes, streams, ponds, or rivers (Jones and Stokes 1993).Within the BSA, open water occurs in the Castaic Creek streambed (Figure 3).

SURVEY RESULTS

The BSA contains two natural communities of special concern, scale broom-mulefat scrub and thick leaf yerba santa scrub, which are both ranked as G3S3 (Figure 4). No other natural communities of special concern are mapped within the BSA.

PROJECT IMPACTS

Impacts associated with the proposed project were quantified by overlaying the proposed impact area for the project with mapped biological resources. The proposed bridge retrofit would occur on existing bridge abutments and footing, within areas mapped as urban/developed land, and will be accessed from the bridge deck.. The habitat within the proposed permanent and



SOURCE: LARIAC 2014; Open Street Map 2019

DUDEK

0 100 200 Feet

FIGURE 4

Biological Resources

The Old Road Bridge Over Castaic Creek Project

temporary impact areas consist of tamarisk thickets, open water (channel bottom), disturbed habitat, and developed land. The two natural communities of special concern mapped within the BSA are outside of the proposed project impact areas. Thus, direct permanent and temporary impacts to natural communities of special concern within the BSA (i.e., scale broom-mulefat scrub and thick leaf yerba santa scrub) would not occur. Therefore, project impacts to natural communities of special concern would be less than significant.

AVOIDANCE AND MINIMIZATION EFFORTS

The project has been designed to avoid impacts to natural vegetation communities of special concern. No avoidance or minimization measures or compensatory mitigation are required because impacts to natural vegetation communities of special concern are not expected to occur.

Compensatory Mitigation

No compensatory mitigation for potential impacts to sensitive natural communities is required for the project as project implementation will not result in an impact to any sensitive natural communities documented within the BSA.

Cumulative Impacts

Due to the limited scope of the project to only conduct seismic retrofit on the bridge, the cumulative impacts of the proposed project on sensitive natural communities in the region will not be cumulatively considerable.

Special Status Plant Species

Special-status plant species include those listed as endangered, rare, or threatened species, as defined in California Environmental Quality Act (CEQA) Guideline Section 15380(b) (14 CCR 15000 et seq.). This designation also includes endangered or threatened species recognized in the context of CESA and the FESA (CDFW 2019b-d. As well as plant species with a CRPR of 1 or 2.

DISCUSSION OF WHITE-RABBIT TOBACCO

White rabbit-tobacco is a native perennial herb that is listed as a CNPS CRPR 2B.2 species. It is typically found in chaparral, cismontane woodland, coastal scrub, and riparian woodland in sandy and gravelly soils. White rabbit-tobacco blooms August through November and occurs from 0 to 6,890 feet above mean sea level.

Survey Results

One special-status plant species, white rabbit-tobacco, was observed within the BSA during the special-status plant species surveys conducted in the spring and summer of 2019. This species is listed as a CRPR 2B.2 species and, therefore, project-related impacts to this species could be considered significant. Additionally, no other special-status plant species analyzed in Table 2 were observed in the BSA during special-status plant species surveys and no other special-status plant species have a moderate or high potential to occur.

Project Impacts

A total of 223 white rabbit-tobacco individuals were documented within the BSA with the majority of the individuals downstream, southwest of the proposed permanent and temporary impact areas. A total of one white rabbit-tobacco individual was observed within the proposed temporary impact area at The Old Road bridge. Impacting one individual of a total population of 223 results in impacting 0.45% of the total individuals documented within the survey area. The remaining 222 individuals are not proposed to be impacted by the temporary or permanent impacts.

Avoidance and Minimization Efforts

To avoid and minimize impacts to the 223 white rabbit-tobacco individuals found within the BSA, prior to the start of construction a qualified biologist shall flag the white rabbit-tobacco plant species in the field. Additionally, temporary orange construction fencing shall be established between the proposed temporary and permanent impacts and the white rabbit-tobacco individuals. Upon construction completion, a qualified biologist shall monitor the removal of the temporary orange construction fencing to avoid impacts to white rabbit-tobacco individuals.

Compensatory Mitigation

The impact of one individual of a total population of 223 individuals is not significant; therefore, no compensatory mitigation is required for impacts to this species or any other special-status plant species.

Cumulative Impacts

Because the potential loss of one individual white-rabbit tobacco plant is not considered significant, the proposed project will not contribute to a cumulatively considerable impact to the local or regional population of this species. Therefore, the project will not result in a cumulative impact to this species or any other special-status plant species.

Special Status Animal Species Occurrences

Special-status wildlife includes those listed as endangered, rare, or threatened species, as defined in California Environmental Quality Act (CEQA) Guideline Section 15380(b) (14 CCR 15000 et seq.). These species also include those listed as endangered or threatened species recognized in the context of CESA and the FESA (CDFW 2019b-d); California Species of Special Concern (SSC), as designated by the CDFW; and (4) mammals and birds that are fully protected species (FP), as described in Fish and Wildlife Code, Section 4700 and 3511.

State and federally listed species determined to have suitable habitat present within the BSA were evaluated through focused surveys to determine the presence/absence of these species. Species determined to be present or with a moderate or high potential to occur are also further evaluated in this NES to determine the potential for project-related impacts to occur. Species evaluated include: arroyo toad, least Bell's vireo, southwestern willow flycatcher, yellow warbler, special-status fish, and special-status bats.

DISCUSSION OF ARROYO TOAD

Arroyo toad is a native toad that is listed as a federally endangered species, and a California SSC. This toad occurs in semi-arid areas near washes, streams, creeks, and rivers with sandy riverbanks and riparian vegetation such as palm oases, Joshua tree, mixed chaparral, and sagebrush. Breeding habitat includes shallow stream channels for breeding, and adjacent stream terraces and uplands for foraging and wintering.

Survey Results

Focused surveys were conducted for arroyo toad between February 2, 2019 and June 26, 2019, during the breeding season for this species. The day and nighttime survey results were negative as no egg strands, tadpoles, or juvenile/adult toads were observed or detected.

Project Impacts

Suitable habitat for this species occurs within Castaic Creek, however, due to yearly dam releases upstream the habitat within the BSA is scoured out due to high flows. These high flows and vegetation scouring significantly alter the habitat conditions within the BSA when this species is the most vulnerable, during the breeding season. Additionally, no arroyo toads at any life stage were observed within the BSA during focused surveys. Therefore, due to the lack of observation/detection and yearly reduction in habitat quality, there is no potential for the project to result in a significant impact to this species.

Avoidance and Minimization Efforts

Because this species is not expected to occur on the BSA due to the lack of observation and reduced habitat suitability during the breeding season, no avoidance and minimization measures are recommended or required.

Compensatory Mitigation

No compensatory mitigation will be required because there are no project impacts to this species.

Cumulative Impacts

The project will not contribute to a cumulatively considerable effect to the regional population of the arroyo toad.

DISCUSSION OF LEAST BELL'S VIREO

The least Bell's vireo is a State and federally endangered species that nests and forages in low, dense riparian thickets along water or along dry parts of intermittent streams. This vireo forages in riparian and adjacent shrubland late in the nesting season.

Survey Results

The focused survey conducted by GPA resulted in negative observations or audible detections of least Bell's vireo within the BSA. Therefore, this species is considered absent from the BSA.

Project Impacts

The project will not result in any direct or indirect impacts to this species.

Avoidance and Minimization Efforts

No species-specific avoidance measures are required for the project because the BSA is considered absent of any least Bell's vireo. However, project compliance with the MBTA and CFG Code will also apply to this species.

Compensatory Mitigation

No compensatory mitigation is required for least Bell's vireo because the project will not result in an impact to this species.

Cumulative Impacts

The project will not contribute to a cumulatively considerable effect on this species due to the lack of direct impacts for this species.

DISCUSSION OF SOUTHWESTERN WILLOW FLYCATCHER

The southwestern willow flycatcher is a State and federally endangered species that nests in dense riparian habitats along streams, reservoirs, and wetlands. This species uses a variety of riparian and shrubland habitats during migration, but is restricted to areas of relatively wide stands of willow woodland.

Survey Results

Focused surveys conducted by Woodstar Biological in spring 2019 determined that this species is present within portions of the Santa Clara River located downstream and outside of the BSA. However, this species was not observed or detected within any portions of Castaic Creek, particularly within the BSA (Appendix F). Therefore, this species is considered absent from the BSA.

Project Impacts

The project will not result in any direct or indirect impacts to this species.

Avoidance and Minimization Efforts

No avoidance or minimization efforts are required for this species because the project will not result in any impacts.

Compensatory Mitigation

No compensatory mitigation is required because neither this species or suitable habitat will be removed by the project.

Cumulative Impacts

The project will not contribute to a cumulatively considerable effect on the population of this species in the region.

DISCUSSION OF YELLOW WARBLER

The yellow warbler is a California SSC that nests and forages in riparian and oak woodlands, montane chaparral, open ponderosa pine, and mixed conifer habitats. This species is most commonly found in riparian habitats throughout Southern California.

Survey Results

The native trees located within a majority of the BSA provides suitable nesting habitat for a number of common resident and migratory bird species protected under the MBTA and CFG Code Section 3500. Yellow warbler was detected vocalizing within riparian vegetation located in the southwestern portion of the BSA. Therefore, this species was determined to be present within the BSA.

Project Impacts

Indirect project-related impacts to yellow warbler may occur during project implementation as a result of adjacent noise and human encroachment into nesting territory during the breeding season. If project activities occur during the general avian breeding season of February through August, yellow warbler, as well as other protected bird species nesting within the BSA may be impacted.

Avoidance and Minimization Efforts

Since it is unlikely that the project would avoid the avian breeding season, a pre-construction clearance survey shall be conducted in order to determine the presence/absence of nesting yellow warblers. If an active nest is discovered a buffer of 150 feet for passerines and 500 feet for raptors shall be established around the nest and a biological monitor may be present to ensure no direct or indirect impact to this species occurs. No project activities may encroach into the buffer until the nest is determined to be inactive.

Compensatory Mitigation

The project will be required to comply with the MBTA and CFG Code by implementing avoidance measures to reduce potential impacts to a less than significant level. Complying with state and federal laws does not constitute mitigation, therefore, no compensatory mitigation is required to address potential impacts to this species.

Cumulative Impacts

Because no compensatory mitigation is required due to the project implementing design features to reduce potential impacts to yellow warbler, the project will not contribute to a cumulatively considerable effect to the population of this species in the region.

DISCUSSION OF SPECIAL-STATUS FISH

Based on potential habitat and occurrence records there are three special-status fish species could occur within Castaic Creek; Santa Ana sucker (*Catostomus santaanae*), unarmored three-spine stickleback, and arroyo chub (*Gila orcutti*).

Santa Ana Sucker

Santa Ana suckers (SAS) are federally threatened species that are generally less than 16 centimeters (cm) in length; however, larger fish may exceed 20 cm (O'Brien et al. 2011). The Santa Ana suckers present in the Santa Clara River basin have been the subject of recent genetic investigation (currently in review) to determine their origin and relation to the listed populations in the Los Angeles, San Gabriel, and Santa Ana Rivers. The 2017 Recovery Plan (USFWS 2017) devotes a chapter to the Santa Clara River population, and determines that while the population upstream of the Piru gap, including Castaic Creek if they were present, are 'pure' Santa Ana suckers and not hybrids, they are not subject to the listing or the recovery plan, yet may have value for recovery and inclusion in future rulemaking (USFWS 2017).

Unarmored Three-Spine Stickleback

The unarmored threespine stickleback (UTS) is one of three recognized threespine stickleback (*Gasterosteus aculeatus*) species on the Pacific Coast of North America and is distinguished from other sticklebacks by the number of lateral plates per individual. UTS typically have an average of 0.06-0.55 lateral plates per individual (Bell 1976) and may have additional distinguishing characteristics including short and reduced denticulation of dorsal and pelvic spines, rounded pectoral and caudal fins, a less streamlined body, and reduced size of the ascending branch of the pelvic girdle (Baskin 1974).

UTS is a federally and State listed endangered species, and a CDFW fully protected species. No critical habitat has been designated for UTS. In 1980, critical habitat was proposed for designation including 31.7 miles of streams in Los Angeles and Santa Barbara Counties, however the USFWS found in 2002 (67 FR 58580) that the designation should not be made because the 1980 proposal did not contain the best available science or consider the current economic impact of the designation.

Arroyo Chub

Arroyo chubs are a California SSC that are small chunky fish reaching lengths up to 120 mm standard length by their fourth year. Arroyo chub are native to the streams and rivers of the Los Angeles plain in southern California, including the Los Angeles, San Gabriel, San Luis Rey, Santa Ana, and Santa Margarita Rivers, and Malibu and San Juan Creeks (Wells and Diana 1975). They have been extirpated from much of their native range, but have been introduced to streams along the coast as far north as Chorro Creek in San Luis Obispo County. They have also been introduced to the Mojave River system where they have eliminated the Mojave tui chub. Arroyo chub are thought to have been introduced

into the Santa Clara River system, including potentially Castaic Creek, and are a CDFW Fish Species of Special Concern.

Survey Results

During the Feb. 13, 2019 survey, all aquatic habitat present within the BSA and Vicinity (approximately ¼ mile upstream and downstream of the BSA) was surveyed for the presence of the target species. Because no flowing water was present during the survey, aquatic habitats were limited to pools remnant from the last flood event prior to the survey. Water conditions were ideal for a visual survey, with clear, non-turbid water remaining in the pools present. Each pool was surveyed visually for fish, and recently dried-up pools were examined for desiccated individuals. Because of the clear and generally shallow water conditions, a visual survey was very effective and provided good coverage of the habitat present. No fish (or other aquatic vertebrates) were observed during the survey.

Project Impacts

While Castaic Creek could provide potentially suitable habitat for the target species when the creek has flowing water present, the intermittent flow regime would not support any of the target species for critical life stages due to quickly receding flows after storm events. No fish were observed during the Feb. 13, 2019 survey in remnant pools, or desiccated in recently dried up pools, suggesting that fish were either not present during recent flow events, or that if fish were present, they were able to migrate out of the area with the receding flows.

Avoidance and Minimization Efforts

The project should avoid work within Castaic Creek when flows are high during upstream dam release as the potential for fish presence is higher.

Compensatory Mitigation

No compensatory mitigation is required because no special-status fish species were observed or are expected to be impacted by the project.

Cumulative Impacts

The project is not expected to result in a significant impact to special-status fish and therefore, would not contribute to a cumulatively considerable effect on the regional population of these special-status fish species.

DISCUSSION OF PALLID BAT

The BSA provides suitable foraging habitat for a foliage roosting special-status bat species known to occur in the area, pallid bat (*Antrozous pallidus*). No other special-status bats have a moderate or higher potential to occur within the BSA. Pallid bat is a California SSC that occurs in a variety of habitats but is most commonly found in riparian habitats with areas of open water. It also occurs in dry habitats with rocky outcrops for roosting, as well as man-made structures and trees.

Survey Results

The focused bat survey conducted by Dudek in June 2019 determined that bats are not roosting within the bridge or immediately adjacent areas, but there are bats foraging within the riparian vegetation on the BSA. Bat species detected during acoustic surveys include: Yuma myotis (*Myotis yumanensis*), California myotis (*Myotis californicus*), canyon bat (*Parastrellus hesperus*), and Mexican free-tailed bat (*Tadarida brasiliensis*). No special-status bat species, including pallid bat, were detected within the BSA.

Project Impacts

The project will not result in the temporary or permanent removal of roosting habitat that could support any special-status bats. Additionally, since pallid bat was not detected on the BSA there is no potential for the project to result in a significant impact to special-status bats.

Avoidance and Minimization Efforts

No special-status bats are present on the BSA. However, if bats or signs of bats are observed prior to or during construction, exclusionary measures must be implemented.

Compensatory Mitigation

No compensatory mitigation is required for the project because no impacts to special-status bats are expected to occur during project implementation.

Cumulative Impacts

The project will not contribute to a cumulatively considerable effect on special-status bat populations in the region because no special-status bats will be impacted by the project.

DISCUSSION OF NESTING BIRDS

Nesting bird species are protected by the MBTA and CFG Code. Any disturbance that causes direct injury, death, nest abandonment, or forced fledging of migratory birds, is restricted under the MBTA and CFG Code. Any removal of active nests during the breeding season or any disturbance that results in the abandonment of nestlings is considered a 'take' of the species.

Survey Results

The BSA provides potential nesting habitat for birds listed by the MBTA. Bird species that may occur within the BSA include species commonly found in upland and riparian habitats, in natural and urban settings. Bird species that could nest within the BSA are identified in Chapter 3.

Project Impacts

Indirect project-related impacts to nesting birds may occur during project implementation as a result of adjacent noise and human encroachment into nesting territory during the

breeding season. If project activities occur during the general avian breeding season of February through August, protected bird species nesting within the BSA may be impacted.

Avoidance and Minimization Efforts

Since project avoidance of the avian breeding season of February 1 through September 1 is not feasible, a pre-construction clearance survey shall be conducted to determine the presence/absence of any nesting bird species within 500 feet of the bridge. If a nesting bird is found, an avoidance buffer will be established around the nest, based on the species' sensitivity to disturbance and proximity to impact areas. The buffer will remain in place as long as the nest is considered active, as determined by an on-site monitor. No encroachment into the buffer may occur without the consent of the on-site monitor, as long as a nest is still active.

Compensatory Mitigation

Project compliance with the MBTA and CFG Code is required by law and therefore, with implementation of the avoidance and minimization efforts described above, no compensatory mitigation will be required to reduce impacts to nesting birds, to a less than significant level.

Cumulative Impacts

Potential nesting birds will be avoided to reduce potential impacts. Therefore, the project will not contribute to a cumulatively considerable effect on nesting birds known to occur in the region.

Regulatory Waters

The potential regulatory waters within the BSA were delineated and documented by GPA in July 2019 (Appendix E). The BSA is within the Santa Clara River watershed (HUC 1807010102) (USGS 2017), which covers approximately 1,634 square miles. The hydrologic features within the BSA are Castaic Creek, two unnamed earthen drainages, and a concrete channel leading to one of the unnamed earthen drainages.

SURVEY RESULTS

Castaic Creek

Castaic Creek is an ephemeral stream that originates from Castaic Lake and terminates approximately 2.55 miles downstream of the bridge at the Santa Clara River, a Relatively Permanent Water (RPW), and continues in a southwestern direction. The width of the channel within the BSA ranges from approximately 19 to 102 feet wide. Flows were very high at the time of the survey. Castaic Creek is controlled by a dam upstream at Castaic Lake. Water flows approximately three to five months out of the year, between January and May, when water is released from Castaic Dam. Castaic Creek also receives perennial surface runoff through culverts from surrounding development. Castaic Creek is potentially subject to USACE, RWQCB, and CDFW jurisdiction.

Unnamed Drainage 1

Unnamed Drainage 1 is an earthen drainage located on the west side of Castaic Creek on the south side of The Old Road bridge. A culvert at The Old Road bridge transports continuous urban runoff into the drainage which terminates approximately 290 feet downstream at Castaic Creek (Figure 4). The width of the drainage ranges from approximately three feet to 10 feet wide. Unnamed Drainage 1 is potentially subject to USACE, RWQCB, and CDFW jurisdiction.

Unnamed Drainage 2

Unnamed Drainage 2 is an earthen drainage located on the west side of Castaic creek and approximately 485 feet south of The Old Road bridge (Figure 4). A concrete levee borders the drainage on the west side. A culvert under the levee transports runoff into the drainage which terminates approximately 385 feet downstream at Castaic Creek. The width of the drainage is approximately 15 feet. Unnamed Drainage 2 is potentially subject to USACE, RWQCB, and CDFW jurisdiction.

These aquatic resources within the BSA are classified as Riverine and Palustrine as described in Table 6 below.

Table 6
Aquatic Resources within the BSA

Aquatic Resource Name	Aquatic Resources Classification		Aquatic Resource Size (acre)	Aquatic Resource Size (linear feet)
	Cowardin	*Location (lat/long)*		
Unnamed Drainage 1 (Wetlands)	Palustrine, Forested Broad-leaved Deciduous	34.451 -118.616	0.06	281
Unnamed Drainage 1 (Non-Wetland Waters)	None	34.451 -118.615	0.02	86
Unnamed Drainage 2 (Wetlands)	Palustrine, Emergent Persistent	34.451 -118.617	0.03	102
Castaic Creek (Non-Wetland Waters)	Riverine, Intermittent Streambed, Cobble-Gravel, Seasonally Flooded	34.451 -118.615	1.13	1,140
		Total	**1.24**	**1,609**

Data Point Results

One transect was evaluated to delineate the OHWM. Four sampling points (one pair) were evaluated at two locations to confirm wetland and upland conditions.

Ordinary High Water Mark

Transect #1

Transect #1 was taken in Castaic Creek under The Old Road bridge. The location of the OHWM was determined by the change in vegetation species and scour mark on the creek banks. The vegetation above the OHWM consists of upland native and non-native species. Below the OHWM the surface is bare ground. The creek is approximately 52 feet wide at the OHWM at Transect #1.

Wetland Delineation

Sampling Points #1 and #2

A soil test pit for Sampling Point #1 was excavated at the bottom of Unnamed Drainage 1, downstream of the culvert. The depth of the soil test pit was limited to six inches because of a restrictive layer of rocks and roots. Vegetation is comprised of herbaceous plants meeting the dominance test for hydrophytic vegetation. Soils are coarse sand with no redox concentration. Although redox concentrations were not observed the drainage has continuous flow and is likely cleared of sediment with larger flows, and despite the prolonged saturation of the soils, hydric soil indicators have likely not had time to form. Therefore, soils are considered problematic soils, and the hydric soils indicator has been met. At the time of the survey, surface water was present, the soil was saturated, and the water table was three inches from the soil surface, meeting the hydrology indicator requirement. Therefore, Sampling Point #1 exhibits all three wetland indicators.

A soil test pit was not excavated for Sampling Point #2, because the soil on the levee is compacted. No vegetation is present. No hydric soils or wetland hydrology indicators were observed. Therefore, Sampling Point #2 exhibits none of the wetland indicators.

Sampling Points #3 and #4

A soil test pit for Sampling Point #3 was excavated at Unnamed Drainage 2, approximately 10 feet from the culvert. The depth of the soil test pit was 12 inches. Vegetation is comprised of herbaceous plants that meet the dominance test for hydrophytic vegetation. Soils are sandy loam with no redox concentrations. However, the soil sample emitted a strong hydrogen sulfide odor. At the time of the survey, surface water was present, the soil was saturated, and the water table was at two inches from the soil surface, meeting the hydrology indicator requirement. Therefore, sampling Point #3 exhibits all three wetland indicators.

A soil test pit for Sampling Point #4 was excavated in a undeveloped field adjacent to the concrete levee on the north side of Unnamed Drainage 2. The depth of the soil was zero inches due to compacted soil. No vegetation was present. No hydric soils or wetland hydrology indicators were observed. Therefore, Sampling Point #4 exhibits none of the wetland indicators.

Jurisdictional Determination

United States Army Corps of Engineers

The BSA was evaluated for wetlands and non-wetland waters under jurisdiction of the USACE by delineating the OHWM of Castaic Creek and assessing the presence of hydrophytic plants, hydric soils, and wetlands hydrology. Within the BSA approximately 0.09 acre of jurisdictional wetlands were delineated and approximately 1.15 acres of non-wetland waters of the U.S. were delineated (see Table 7).

Table 7
Jurisdictional Wetlands and Waters Delineated within the BSA

Regulatory Agency	Jurisdictional Wetlands Within the BSA (acres)	Non-Wetland Jurisdictional Waters within the BSA (acres)	Total Jurisdiction within BSA (acres)	Impact Acres (temporary)
U.S. Army Corps of Engineers	0.09	1.15	1.24	0.07
Regional Water Quality Control Board	0.09	1.15	1.24	0.07
California Department of Fish and Wildlife	1.79	5.19	7.58	0.22

Regional Water Quality Control Board

The Castaic Creek had surface water at the time of the survey and is expected to fall under RWQCB jurisdiction. The BSA was evaluated for waters under jurisdiction of the RWQCB by delineating the OHWM of Castaic Creek. Jurisdictional wetlands were identified by determining the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. Within the BSA approximately 0.09 acre of wetlands were delineated and approximately 1.15 acres of non-wetland waters of the State were delineated (see Table 7).

California Department of Fish and Wildlife

Castaic Creek has a defined bed and bank and supported vegetation at the time of the survey. Therefore, it is expected to fall under CDFW jurisdiction. The BSA was evaluated for waters under jurisdiction of the CDFW by delineating areas from the top of bank to the top of bank within the creek. There is no riparian vegetation extending beyond the top of the banks that would fall within CDFW jurisdiction. Approximately 7.58 acres under CDFW jurisdiction were delineated in the Castaic Creek (see Table 7).

Project Impacts

The project will not result in any permanent impacts to Castaic Creek as the project will conduct seismic retrofit on The Old Road bridge, which will only result in a permanent impact to existing developed areas on the bridge. However, the project will result in temporary impacts as a result of access for the project within Castaic Creek in order to conduct retrofit activities. The temporary access area defined for the project is approximately 0.43 acre, which also includes upland areas outside of Castaic Creek. Therefore, the project will result in up to 0.43 acre of temporary impacts to Castaic Creek through construction access, however the specific impact area will be further refined during the regulatory permitting application process.

Avoidance and Minimization Efforts

Work areas would be reduced to the maximum extent feasible, and staging areas would be along the roadways and outside of Castaic Creek. During construction, erosion-control measures shall be implemented as part of the Storm Water Pollution Prevention Plan (SWPPP) for the proposed project. Although project impacts will be less than 1 acre, a

SWPPP should be included as part of the project due to work within and immediately adjacent to Castaic Creek. Prior to the start of construction activities, the Contractor shall file a Permit Registration Document with the State Water Resources Control Board in order to obtain coverage under the National Pollutant Discharge Elimination System (NPDES) *General Permit for Storm Water Discharges Associated with the Construction and Land Disturbance Activities* (Order No 2009-009-DWQ, NPDES No. CAS000002) or the latest approved general permit. The SWPPP will identify the sources of pollutants that may affect the quality of storm water and include best management practices (BMPs) to control the pollutants. All work shall conform to the water diversion methods and construction site BMP requirements specified in the latest edition of Los Angeles County Flood Control District's (LACFCD) *Water Diversion Manual and Best Management Practices for Routine Maintenance and Emergency Repair of Soft-Bottom and Concrete-Lined Channels* (LACFCD 2016). These include, but are not limited to, temporary sediment control, temporary soil stabilization, waste management and materials pollution control, wind erosion control, and other non-storm water best management practices (BMPs).

Compensatory Mitigation

Compensatory habitat-based mitigation will be required for project-related temporary impacts to up to 0.43 acre of waters of the U.S. and State regulated by the USACE, RWQCB, and CDFW. Mitigation will be required as part of the regulatory permit application process for project impacts to regulated waters, which would require a minimum 1:1 ratio. Temporary impacts can be mitigated for either through on site restoration of in-kind habitat, or through the purchase of offsite in-lieu fee credits through an agency approved mitigation bank. The final mitigation ratio and strategy will be determined through the regulatory permitting process and consultation with USACE, RWQCB, and CDFW.

Cumulative Impacts

Project-related temporary impacts to State and federally regulated waters will not result in a significant reduction in the overall function and value of Castaic Creek, which connects to other waterways in the region. Additionally, the implementation of construction BMPs will further reduce the potential for any toxics or sediment from entering Castaic Creek and impacting downstream waters. Therefore, the project will not contribute to a cumulatively considerable effect on jurisdictional waters in the region.

Chapter 5 – Conclusions and Regulatory Determinations

Federal Endangered Species Act Consultation Summary

No direct consultation with any federal resource agencies has been conducted for the project.

The project is located on The Old Road Bridge that spans over Castaic Creek, and portions of Castaic Creek will be accessed by the project to conduct seismic retrofit on The Old Road Bridge. Additionally, vegetation clearing will be required by the project for equipment to access Castaic Creek. No sensitive vegetation communities will be removed or trimmed for equipment access.

Designated critical habitat for the arroyo toad and southwestern willow flycatcher are mapped within the portions of Castaic Creek that occur within the BSA, and primary constituent elements to support both species also occurs within the BSA. However, the scheduled release of flows from Castaic Lake have created unfavorable conditions to support arroyo toad within the BSA during the species' breeding season from March to June. Additionally, no arroyo toads were observed or detected during focused surveys for the species. Therefore, the potential for arroyo toad to occur within the BSA is significantly reduced and arroyo toad is no longer expected to occur within the BSA.

Southwestern willow flycatcher surveys conducted by Woodstar in spring 2019 resulted in negative findings of any willow flycatchers, migrant or otherwise, within the portion of Castaic Creek within and immediately adjacent to the BSA. While suitable habitat for this species persists within the BSA, no suitable habitat will be removed by the project, and this species is not expected to occur. Therefore, the proposed project will not result in a significant impact to southwestern willow flycatcher.

Essential Fish Habitat Consultation Summary

No direct consultation with the NMFS was conducted for this project; however, an official species list was obtained through email from NMFS and species listed were considered for their potential to occur within the BSA. Designated Essential Fish Habitat is not found within the BSA or immediate area. Therefore, Consultation with the NMFS will not be required.

California Endangered Species Act Consultation Summary

There has been no coordination with the CDFW regarding the CESA. According to the CNDDB and CNPS queries, a total of eight State-listed threatened or endangered animal species have the potential to occur within the vicinity of the BSA due to the presence of suitable habitat. No State-listed plant or animal species were observed with the BSA during focused surveys. Additionally, no suitable habitat for any State-listed species will be removed by the project, which will further reduce the potential for any project-related impacts to occur. As such, the proposed Project is determined to have no effect, or no "take", on any State-listed threatened or endangered species identified by the CNDDB or CNPS (refer to Table 3). Therefore, no additional mitigation or consultation with CDFW pursuant to the CESA will be required.

Wetlands and Other Waters Coordination Summary

No coordination with any resource agencies that regulate jurisdictional waters have been conducted for the project. The project will occur over Castaic Creek, and adjacent to 2 unnamed drainages, that are potentially subject to regulatory agency jurisdiction from the USACE, CDFW, and RWQCB. The project will require temporary access within Castaic Creek to perform maintenance on the bridge, which will encroach into local, state, and federal agency jurisdiction. Therefore, impacts to Waters of the U.S. and State, and waters under CDFW jurisdiction, are possible for the project and permitting under Sections 401 and 404 of the CWA, CFGC Section 1600 et seq., and a NPDES permit from the RWQCB. All permit conditions would be implemented.

Invasive Species

Invasive species include plant species that are non-native (or alien) to the ecosystem under consideration; and whose introduction causes or is likely to cause economic or environmental harm or harm to human health. These species are derived from State and federal lists compiled by the NRCS (USDA 2019).

Survey Results

During the biological reconnaissance and focused plant surveys, several invasive plant species were identified within the BSA including but not limited to: giant reed (*Arundo donax*), tamarisk (*Tamarix ramosissima*), slender oat (*Avena barbata*), ripgut brome (*Bromus diandrus*), compact brome (*Bromus madritensis*), cheatgrass (*Bromus tectorum*), perennial rye grass (*Festuca perennis*), mouse barley (*Hordeum murinum*), and longbeak stork's bill (*Erodium botrys*).

Project Impacts

During project implementation, noxious and invasive weeds may be introduced to the BSA from construction equipment and personnel vehicles. The project is proposing to conduct retrofit on The Old Road Bridge that spans over Castaic Creek, and the potential introduction of noxious weeds is considered a significant impact.

Avoidance and Minimization Efforts

Noxious weeds and invasive species control would need to be implemented into the project to reduce the potential for the introduction of noxious weeds to no effect. During project implementation BMPs will be employed to minimize the introduction of invasive plant seed heads. Prior to entering into Castaic Creek, all construction equipment will be inspected and cleaned prior to use to minimize the importation and spread of non-native plant material.

Other

Nesting bird species protected by the MBTA and CFG Code may be indirectly impacted by the project should activities commence during the general nesting bird season of February 1 through September 1. To reduce any potential impact to nesting birds, a pre-construction clearance survey shall be conducted within 7 days prior to project implementation if the project were to occur during the nesting season. Active nests found

during the pre-construction clearance survey will be flagged for avoidance. If a nesting bird is found, an avoidance buffer of 150 feet for passerines and 500 feet for raptors will be established around the nest, based on the species sensitivity to disturbance and proximity to impact areas. The buffer will remain in place as long as the nest is considered active, as determined by an on-site monitor. No encroachment into the buffer may occur within the consent of the on-site monitor, as long as a nest is still active.

Chapter 6 – References

14 CCR 15000–15387 and Appendix A–L. Guidelines for Implementation of the California Environmental Quality Act, as amended.

16 USC 703–712. Migratory Bird Treaty Act, as amended.

16 USC 668–668d. Bald and Golden Eagle Protection Act.

16 USC 1531–1544. Endangered Species Act, as amended.

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California Fish and Game Code, Sections 3500–3516. Division 4: Birds and Mammals, Part 2: Birds.

California Fish and Game Code, Section 3801. Division 1: Fish and Game Commission, Part 2: Game, Furbearers, Nongame, and Depredators, Chapter 6: Nongame Animals.

California Fish and Game Code, Section 4700. Fully Protected Mammals.

California Fish and Game Code, Section 5050. Fully Protected Reptiles and Amphibians.

California Fish and Game Code, Section 5515. Fully Protected Fish.

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Appendix A – Site Photographs



Photo 1: Facing east from the western boundary of the BSA towards The Old Road Bridge.



Photo 2: Facing northeast from the middle of Castaic Creek towards The Old Road Bridge.



Photo 3: Facing west from beneath I-5 towards The Old Road Bridge.



Photo 4: Facing east from below I-5 towards habitat upstream of the BSA.



Photo 5: Facing south from beneath The Old Road Bridge. View of footing piles.



Photo 6: Facing southwest from The Old Road Bridge towards downstream habitat within the BSA.



Photo 7: Facing east towards the unnamed drainage 1 adjacent to The Old Road Bridge.



Photo 8: Facing southeast from the western portion of the BSA towards population of white-rabbit tobacco plants.

Appendix B – Species Compendium

Plant Species

EUDICOTS – VASCULAR SPECIES

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

AMARANTHACEAE—AMARANTH FAMILY

Amaranthus blitoides—mat amaranth

APOCYNACEAE—DOGBANE FAMILY

* *Nerium oleander*—oleander

ASTERACEAE—SUNFLOWER FAMILY

Ambrosia acanthicarpa—flatspine bur ragweed
Ambrosia psilostachya—western ragweed
Artemisia californica—California sagebrush
Artemisia douglasiana—Douglas' sagewort
Baccharis pilularis—coyote brush
Baccharis salicifolia—mulefat
* *Carduus pycnocephalus*—Italian plumeless thistle
* *Centaurea melitensis*—Maltese star-thistle
Corethrogyne filaginifolia—sand-aster
* *Erigeron bonariensis*—asthmaweed
Helianthus annuus—common sunflower
Heterotheca grandiflora—telegraphweed
Heterotheca sessiliflora—sessileflower false goldenaster
* *Lactuca serriola*—prickly lettuce
Lepidospartum squamatum—scale broom
* *Logfia gallica*—narrowleaf cottonrose
Pseudognaphalium californicum—ladies' tobacco
Pseudognaphalium leucocephalum—white rabbit-tobacco
Pseudognaphalium microcephalum—Wright's cudweed
* *Senecio vulgaris*—old-man-in-the-Spring
* *Sonchus asper*—spiny sowthistle
* *Sonchus oleraceus*—common sowthistle
Stephanomeria virgata—rod wirelettuce
Xanthium strumarium—cocklebur

BORAGINACEAE—BORAGE FAMILY

Amsinckia intermedia—common fiddleneck
Cryptantha micrantha—redroot cryptantha
Emmenanthe penduliflora—whisperingbells
Eriodictyon crassifolium var. *nigrescens*—thickleaf yerba santa
Eucrypta chrysanthemifolia var. *chrysanthemifolia*—spotted hideseed
Heliotropium curassavicum—salt heliotrope
Pectocarya linearis—sagebrush combseed
Phacelia cicutaria var. *hispida*—caterpillar phacelia
Phacelia viscida—tacky phacelia

BRASSICACEAE—MUSTARD FAMILY

* *Brassica nigra*—black mustard
* *Hirschfeldia incana*—shortpod mustard
Lepidium virginicum—Virginia pepperweed
* *Sisymbrium irio*—London rocket
* *Sisymbrium orientale*—Indian hedgemustard

CACTACEAE—CACTUS FAMILY

Cylindropuntia californica var. *parkeri*—brownspined pricklypear
Opuntia littoralis—coast prickly pear

CARYOPHYLLACEAE—PINK FAMILY

* *Cerastium glomeratum*—sticky chickweed

CHENOPODIACEAE—GOOSEFOOT FAMILY

* *Chenopodium album*—lambsquarters
* *Chenopodium murale*—nettleleaf goosefoot
* *Salsola tragus*—prickly Russian thistle

CRASSULACEAE—STONECROP FAMILY

Crassula connata—sand pygmyweed

EUPHORBIACEAE—SPURGE FAMILY

* *Euphorbia maculata*—spotted sandmat
* *Ricinus communis*—castorbean

FABACEAE—LEGUME FAMILY

Acmispon glaber—deer weed

Astragalus trichopodus—Santa Barbara milkvetch

Lupinus excubitus var. *excubitus*—grape soda lupine

Lupinus hirsutissimus—stinging annual lupine

* *Melilotus albus*—yellow sweetclover

* *Melilotus indicus*—annual yellow sweetclover

FAGACEAE—OAK FAMILY

Quercus agrifolia—coast live oak

GERANIACEAE—GERANIUM FAMILY

* *Erodium botrys*—longbeak stork's bill

* *Erodium cicutarium*—redstem stork's bill

JUGLANDACEAE—WALNUT FAMILY

Juglans californica—Southern California black walnut

LAMIACEAE—MINT FAMILY

Salvia columbariae—chia

Trichostema lanatum—woolly bluecurls

MORACEAE—MULBERRY FAMILY

* *Ficus carica*—edible fig

MYRSINACEAE—MYRSINE FAMILY

* *Lysimachia arvensis*—scarlet pimpernel

MYRTACEAE—MYRTLE FAMILY

* *Eucalyptus camaldulensis*—river redgum

OLEACEAE—OLIVE FAMILY

Fraxinus velutina—velvet ash

ONAGRACEAE—EVENING PRIMROSE FAMILY

Camissonia strigulosa—sandysoil suncup

Camissoniopsis bistorta—southern suncup

PHRYMACEAE—LOPSEED FAMILY

Diplacus brevipes—widethroat yellow monkeyflower

Erythranthe floribunda—manyflowered monkeyflower

Erythranthe guttata—common monkey flower

PLANTAGINACEAE—PLANTAIN FAMILY

Antirrhinum coulterianum—Coulter's snapdragon

* *Veronica anagallis-aquatica*—water speedwell

PLATANACEAE—PLANE TREE, SYCAMORE FAMILY

Platanus racemosa—California sycamore

POLYGONACEAE—BUCKWHEAT FAMILY

Eriogonum fasciculatum—California buckwheat

* *Rumex conglomeratus*—clustered dock

* *Rumex crispus*—curly dock

PORTULACACEAE—PURSLANE FAMILY

* *Portulaca oleracea*—little hogweed

RUBIACEAE—MADDER FAMILY

Galium angustifolium—narrowleaf bedstraw

SALICACEAE—WILLOW FAMILY

Populus fremontii—Fremont cottonwood

Salix exigua—sandbar willow

Salix gooddingii—black willow

Salix lasiolepis—arroyo willow

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii—sacred thorn-apple

* *Nicotiana glauca*—tree tobacco

Solanum americanum—American black nightshade

TAMARICACEAE—TAMARISK FAMILY

* *Tamarix ramosissima*—tamarisk

URTICACEAE—NETTLE FAMILY

* *Urtica urens*—dwarf nettle

VERBENACEAE—VERVAIN FAMILY

Verbena lasiostachys—western vervain

MONOCOTS – VASCULAR SPECIES

ARECACEAE—PALM FAMILY

* *Washingtonia robusta*—Washington fan palm

CYPERACEAE—SEDGE FAMILY

Cyperus eragrostis—tall flatsedge

POACEAE—GRASS FAMILY

* *Arundo donax*—giant reed
* *Avena barbata*—slender oat
* *Bromus diandrus*—ripgut brome
* *Bromus madritensis*—compact brome
* *Bromus tectorum*—cheatgrass
* *Festuca perennis*—perennial rye grass
* *Hordeum murinum*—mouse barley
Leptochloa fusca ssp. *uninervia*—Mexican sprangletop
* *Paspalum dilatatum*—dallisgrass
* *Pennisetum setaceum*—fountain grass
* *Poa annua*—annual bluegrass
* *Polypogon monspeliensis*—annual rabbitsfoot grass
* *Schismus barbatus*—common Mediterranean grass
* *Stipa miliacea*—no common name

TYPHACEAE—CATTAIL FAMILY

Typha domingensis—southern cattail

Wildlife Species

AMPHIBIAN

FROGS

RANIDAE—TONGUELESS FROGS

* *Xenopus laevis*—African clawed frog

HYLIDAE—TREEFROGS

Pseudacris cadaverina—California treefrog

Pseudacris hypochondriaca—Baja California treefrog

TOADS

BUFONIDAE—TRUE TOADS

Anaxyrus boreas—western toad

BIRD

BLACKBIRDS, ORIOLES & ALLIES

ICTERIDAE—BLACKBIRDS

Icterus cucullatus—hooded oriole

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS & BUSHTITS

Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS & ALLIES

CARDINALIDAE—CARDINALS & ALLIES

Passerina caerulea—blue grosbeak

FINCHES

FRINGILLIDAE—FRINGILLINE & CARDUELINE FINCHES & ALLIES

Haemorhous mexicanus—house finch

Spinus lawrencei—Lawrence's goldfinch

Spinus psaltria—lesser goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Myiarchus cinerascens—ash-throated flycatcher

Sayornis nigricans—black phoebe

Sayornis saya—Say's phoebe

Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, & ALLIES

Accipiter striatus—sharp-shinned hawk

Buteo lineatus—red-shouldered hawk

Elanus leucurus—white-tailed kite

HERONS & BITTERNS

ARDEIDAE—HERONS, BITTERNS, & ALLIES

Ardea herodias—great blue heron

Egretta thula—snowy egret

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird

Selasphorus sp.—Allen's/rufous hummingbird

JAYS, MAGPIES & CROWS

CORVIDAE—CROWS & JAYS

Aphelocoma californica—California scrub-jay

Corvus brachyrhynchos—American crow

Corvus corax—common raven

LARKS

ALAUDIDAE—LARKS

Eremophila alpestris—horned lark

MOCKINGBIRDS & THRASHERS

MIMIDAE—MOCKINGBIRDS & THRASHERS

Mimus polyglottos—northern mockingbird

Toxostoma redivivum—California thrasher

OWLS

TYTONIDAE—BARN OWLS

Tyto alba—barn owl

PIGEONS & DOVES

COLUMBIDAE—PIGEONS & DOVES

Streptopelia decaocto—Eurasian collared-dove*

Zenaida macroura—mourning dove

SHOREBIRDS

CHARADRIIDAE—LAPWINGS & PLOVERS

Charadrius vociferus—killdeer

STARLINGS & ALLIES

STURNIDAE—STARLINGS

Sturnus vulgaris—European starling*

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Petrochelidon pyrrhonota—cliff swallow

Stelgidopteryx serripennis—northern rough-winged swallow

THRUSHES

TURDIDAE—THRUSHES

Sialia mexicana—western bluebird

Turdus migratorius—American robin

WATERFOWL

ANATIDAE—DUCKS, GEESE, & SWANS

Anas platyrhynchos—mallard

Branta canadensis—Canada goose

WOOD WARBLERS & ALLIES

PARULIDAE—WOOD-WARBLERS

Setophaga coronata—yellow-rumped warbler

Setophaga petechia—yellow warbler

WOODPECKERS

PICIDAE—WOODPECKERS & ALLIES

Picoides nuttallii—Nuttall's woodpecker

WRENS

TROGLODYTIDAE—WRENS

Thryomanes bewickii—Bewick's wren

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

Melospiza melodia—song sparrow

Melozone crissalis—California towhee

Passerculus sandwichensis—savannah sparrow

FISH

OTHER BONY FISHES

COTTIDAE—SCULPINS

Cottus asper—prickly sculpin

Invertebrates

BUTTERFLIES

NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

Vanessa cardui—painted lady

MAMMAL

CANIDS

CANIDAE—WOLVES & FOXES

Canis latrans—coyote

HARES & RABBITS

LEPORIDAE—HARES & RABBITS

Sylvilagus bachmani—brush rabbit

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

Thomomys bottae—Botta's pocket gopher

SQUIRRELS

SCIURIDAE—SQUIRRELS

Spermophilus (*Otospermophilus*) *beecheyi*—California ground squirrel

RACCOONS

PROCYONIDAE—RACCOONS & RELATIVES

Procyon lotor—raccoon

* signifies introduced (non-native) species

Appendix C – Species Lists

Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database

Query Criteria: Quad IS (Newhall (3411845) OR Whitaker Peak (3411856) OR Warm Springs Mountain (3411855) OR Green Valley (3411854) OR Val Verde (3411846) OR Mint Canyon (3411844) OR Santa Susana (3411836) OR Oat Mountain (3411835) OR San Fernando (3411834))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Accipiter cooperii Cooper's hawk	ABNKC12040	None	None	G5	S4	WL
Aimophila ruficeps canescens southern California rufous-crowned sparrow	ABPBX91091	None	None	G5T3	S3	WL
Ammodramus savannarum grasshopper sparrow	ABPBXA0020	None	None	G5	S3	SSC
Anaxyrus californicus arroyo toad	AAABB01230	Endangered	None	G2G3	S2S3	SSC
Anniella spp. California legless lizard	ARACC01070	None	None	G3G4	S3S4	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G5	S3	SSC
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Artemisiospiza belli belli Bell's sage sparrow	ABPBX97021	None	None	G5T2T3	S3	WL
Aspidoscelis tigris stejnegeri coastal whiptail	ARACJ02143	None	None	G5T5	S3	SSC
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Berberis nevinii Nevin's barberry	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
Bombus crotchii Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
Branchinecta lynchi vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
California Walnut Woodland California Walnut Woodland	CTT71210CA	None	None	G2	S2.1	
Calochortus clavatus var. gracilis slender mariposa-lily	PMLIL0D096	None	None	G4T2T3	S2S3	1B.2
Calochortus fimbriatus late-flowered mariposa-lily	PMLIL0D1J2	None	None	G3	S3	1B.3
Calochortus palmeri var. palmeri Palmer's mariposa-lily	PMLIL0D122	None	None	G3T2	S2	1B.2

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Calochortus plummerae Plummer's mariposa-lily	PMLIL0D150	None	None	G4	S4	4.2
Calystegia peirsonii Peirson's morning-glory	PDCON040A0	None	None	G4	S4	4.2
Catostomus santaanae Santa Ana sucker	AFCJC02190	Threatened	None	G1	S1	
Chorizanthe parryi var. fernandina San Fernando Valley spineflower	PDPGN040J1	Proposed Threatened	Endangered	G2T1	S1	1B.1
Chorizanthe parryi var. parryi Parry's spineflower	PDPGN040J2	None	None	G3T2	S2	1B.1
Cismontane Alkali Marsh Cismontane Alkali Marsh	CTT52310CA	None	None	G1	S1.1	
Coccyzus americanus occidentalis western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
Corynorhinus townsendii Townsend's big-eared bat	AMACC08010	None	None	G3G4	S2	SSC
Danaus plexippus pop. 1 monarch - California overwintering population	IILEPP2012	None	None	G4T2T3	S2S3	
Deinandra minthornii Santa Susana tarplant	PDAST4R0J0	None	Rare	G2	S2	1B.2
Dodecahema leptoceras slender-horned spineflower	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
Elanus leucurus white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
Emys marmorata western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
Eremophila alpestris actia California horned lark	ABPAT02011	None	None	G5T4Q	S4	WL
Euderma maculatum spotted bat	AMACC07010	None	None	G4	S3	SSC
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
Euphydryas editha quino quino checkerspot butterfly	IILEPK405L	Endangered	None	G5T1T2	S1S2	
Falco mexicanus prairie falcon	ABNKD06090	None	None	G5	S4	WL
Gasterosteus aculeatus williamsoni unarmored threespine stickleback	AFCPA03011	Endangered	Endangered	G5T1	S1	FP
Gila orcuttii arroyo chub	AFCJB13120	None	None	G2	S2	SSC
Gymnogyps californianus California condor	ABNKA03010	Endangered	Endangered	G1	S1	FP

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Harpagonella palmeri Palmer's grapplinghook	PDBOR0H010	None	None	G4	S3	4.2
Helianthus inexpectatus Newhall sunflower	PDAST4N250	None	None	G1	S1	1B.1
Horkelia cuneata var. puberula mesa horkelia	PDROS0W045	None	None	G4T1	S1	1B.1
Icteria virens yellow-breasted chat	ABPBX24010	None	None	G5	S3	SSC
Lanius ludovicianus loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
Lasiurus cinereus hoary bat	AMACC05030	None	None	G5	S4	
Lepechinia rossii Ross' pitcher sage	PDLAM0V060	None	None	G1	S1	1B.2
Lepidium virginicum var. robinsonii Robinson's pepper-grass	PDBRA1M114	None	None	G5T3	S3	4.3
Lepus californicus bennettii San Diego black-tailed jackrabbit	AMAEB03051	None	None	G5T3T4	S3S4	SSC
Lupinus paynei Payne's bush lupine	PDFAB2B580	None	None	G1Q	S1	1B.1
Macrotus californicus California leaf-nosed bat	AMACB01010	None	None	G4	S3	SSC
Mainland Cherry Forest Mainland Cherry Forest	CTT81820CA	None	None	G1	S1.1	
Malacothamnus davidsonii Davidson's bush-mallow	PDMAL0Q040	None	None	G2	S2	1B.2
Navarretia fossalis spreading navarretia	PDPLM0C080	Threatened	None	G2	S2	1B.1
Navarretia ojaiensis Ojai navarretia	PDPLM0C130	None	None	G2	S2	1B.1
Navarretia setiloba Piute Mountains navarretia	PDPLM0C0S0	None	None	G2	S2	1B.1
Neotamias speciosus speciosus lodgepole chipmunk	AMAFB02172	None	None	G4T2T3	S2S3	
Neotoma lepida intermedia San Diego desert woodrat	AMAFF08041	None	None	G5T3T4	S3S4	SSC
Onychomys torridus ramona southern grasshopper mouse	AMAFF06022	None	None	G5T3	S3	SSC
Opuntia basilaris var. brachyclada short-joint beavertail	PDCAC0D053	None	None	G5T3	S3	1B.2
Orcuttia californica California Orcutt grass	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Phrynosoma blainvillii coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
Polioptila californica californica coastal California gnatcatcher	ABPBJ08081	Threatened	None	G4G5T2Q	S2	SSC
Pseudognaphalium leucocephalum white rabbit-tobacco	PDAST440C0	None	None	G4	S2	2B.2
Rana boylii foothill yellow-legged frog	AAABH01050	None	Candidate Threatened	G3	S3	SSC
Rana draytonii California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
Rana muscosa southern mountain yellow-legged frog	AAABH01330	Endangered	Endangered	G1	S1	WL
Rhinichthys osculus ssp. 3 Santa Ana speckled dace	AFCJB3705K	None	None	G5T1	S1	SSC
Riparia riparia bank swallow	ABPAU08010	None	Threatened	G5	S2	
Riversidian Alluvial Fan Sage Scrub Riversidian Alluvial Fan Sage Scrub	CTT32720CA	None	None	G1	S1.1	
Senecio aphanactis chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
Setophaga petechia yellow warbler	ABPBX03010	None	None	G5	S3S4	SSC
Southern California Threespine Stickleback Stream Southern California Threespine Stickleback Stream	CARE2320CA	None	None	GNR	SNR	
Southern Coast Live Oak Riparian Forest Southern Coast Live Oak Riparian Forest	CTT61310CA	None	None	G4	S4	
Southern Cottonwood Willow Riparian Forest Southern Cottonwood Willow Riparian Forest	CTT61330CA	None	None	G3	S3.2	
Southern Mixed Riparian Forest Southern Mixed Riparian Forest	CTT61340CA	None	None	G2	S2.1	
Southern Riparian Scrub Southern Riparian Scrub	CTT63300CA	None	None	G3	S3.2	
Southern Sycamore Alder Riparian Woodland Southern Sycamore Alder Riparian Woodland	CTT62400CA	None	None	G4	S4	
Southern Willow Scrub Southern Willow Scrub	CTT63320CA	None	None	G3	S2.1	
Spea hammondii western spadefoot	AAABF02020	None	None	G3	S3	SSC
Streptanthus campestris southern jewelflower	PDBRA2G0B0	None	None	G3	S3	1B.3
Symphyotrichum greatae Greata's aster	PDASTE80U0	None	None	G2	S2	1B.3

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Taricha torosa Coast Range newt	AAAAF02032	None	None	G4	S4	SSC
Taxidea taxus American badger	AMAJF04010	None	None	G5	S3	SSC
Thamnophis hammondii two-striped gartersnake	ARADB36160	None	None	G4	S3S4	SSC
Valley Oak Woodland Valley Oak Woodland	CTT71130CA	None	None	G3	S2.1	
Vireo bellii pusillus least Bell's vireo	ABPBW01114	Endangered	Endangered	G5T2	S2	

Record Count: 86

CNPS California Native Plant Society

*The database used to provide updates to the Online Inventory is under construction. View updates and changes made since May 2019 here.

Plant List

47 matches found. *Click on scientific name for details*

Search Criteria

Found in Quads 3411856, 3411855, 3411854, 3411846, 3411845, 3411844, 3411836 3411835 and 3411834;

Modify Search Criteria | Export to Excel | Modify Columns | Modify Sort | Display Photos

Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Acanthoscyphus parishii var. parishii	Parish's oxytheca	Polygonaceae	annual herb	Jun-Sep	4.2	S3S4	G4? T3T4
Allium howellii var. clokeyi	Mt. Pinos onion	Alliaceae	perennial bulbiferous herb	Apr-Jun	1B.3	S2	G4T2
Astragalus brauntonii	Braunton's milk-vetch	Fabaceae	perennial herb	Jan-Aug	1B.1	S2	G2
Berberis nevinii	Nevin's barberry	Berberidaceae	perennial evergreen shrub	(Feb)Mar-Jun	1B.1	S1	G1
Calochortus catalinae	Catalina mariposa lily	Liliaceae	perennial bulbiferous herb	(Feb)Mar-Jun	4.2	S3S4	G3G4
Calochortus clavatus var. clavatus	club-haired mariposa lily	Liliaceae	perennial bulbiferous herb	(Mar)May-Jun	4.3	S3	G4T3
Calochortus clavatus var. gracilis	slender mariposa lily	Liliaceae	perennial bulbiferous herb	Mar-Jun(Nov)	1B.2	S2S3	G4T2T3
Calochortus fimbriatus	late-flowered mariposa lily	Liliaceae	perennial bulbiferous herb	Jun-Aug	1B.3	S3	G3
Calochortus palmeri var. palmeri	Palmer's mariposa lily	Liliaceae	perennial bulbiferous herb	Apr-Jul	1B.2	S2	G3T2
Calochortus plummerae	Plummer's mariposa lily	Liliaceae	perennial bulbiferous herb	May-Jul	4.2	S4	G4
Calystegia peirsonii	Peirson's morning-glory	Convolvulaceae	perennial rhizomatous herb	Apr-Jun	4.2	S4	G4
Canbya candida	white pygmy-poppy	Papaveraceae	annual herb	Mar-Jun	4.2	S3S4	G3G4
Castilleja gleasoni	Mt. Gleason paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	May-Jun(Sep)	1B.2	S2	G2
Cercocarpus betuloides var. blancheae	island mountain-mahogany	Rosaceae	perennial evergreen shrub	Feb-May	4.3	S4	G5T4
Chorizanthe parryi var. fernandina	San Fernando Valley spineflower	Polygonaceae	annual herb	Apr-Jul	1B.1	S1	G2T1
Chorizanthe parryi var. parryi	Parry's spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S2	G3T2

Clinopodium mimuloides	monkey-flower savory	Lamiaceae	perennial herb	Jun-Oct	4.2	S3	G3
Deinandra minthornii	Santa Susana tarplant	Asteraceae	perennial deciduous shrub	Jul-Nov	1B.2	S2	G2
Deinandra paniculata	paniculate tarplant	Asteraceae	annual herb	(Mar)Apr-Nov(Dec)	4.2	S4	G4
Delphinium parryi ssp. purpureum	Mt. Pinos larkspur	Ranunculaceae	perennial herb	May-Jun	4.3	S4	G4T4
Dodecahema leptoceras	slender-horned spineflower	Polygonaceae	annual herb	Apr-Jun	1B.1	S1	G1
Galium grande	San Gabriel bedstraw	Rubiaceae	perennial deciduous shrub	Jan-Jul	1B.2	S1	G1
Harpagonella palmeri	Palmer's grapplinghook	Boraginaceae	annual herb	Mar-May	4.2	S3	G4
Helianthus inexpectatus	Newhall sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	1B.1	S1	G1
Helianthus nuttallii ssp. parishii	Los Angeles sunflower	Asteraceae	perennial rhizomatous herb	Aug-Oct	1A	SH	G5TH
Hordeum intercedens	vernal barley	Poaceae	annual herb	Mar-Jun	3.2	S3S4	G3G4
Horkelia cuneata var. puberula	mesa horkelia	Rosaceae	perennial herb	Feb-Jul(Sep)	1B.1	S1	G4T1
Hulsea vestita ssp. parryi	Parry's sunflower	Asteraceae	perennial herb	Apr-Aug	4.3	S4	G5T4
Juglans californica	Southern California black walnut	Juglandaceae	perennial deciduous tree	Mar-Aug	4.2	S4	G4
Lepechinia fragrans	fragrant pitcher sage	Lamiaceae	perennial shrub	Mar-Oct	4.2	S3	G3
Lepechinia rossii	Ross' pitcher sage	Lamiaceae	perennial shrub	May-Sep	1B.2	S1	G1
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	Brassicaceae	annual herb	Jan-Jul	4.3	S3	G5T3
Lilium humboldtii ssp. ocellatum	ocellated Humboldt lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	4.2	S4?	G4T4?
Lupinus paynei	Payne's bush lupine	Fabaceae	perennial shrub	Mar-Apr(May-Jul)	1B.1	S1	G1Q
Malacothamnus davidsonii	Davidson's bush-mallow	Malvaceae	perennial deciduous shrub	Jun-Jan	1B.2	S2	G2
Navarretia fossalis	spreading navarretia	Polemoniaceae	annual herb	Apr-Jun	1B.1	S2	G2
Navarretia ojaiensis	Ojai navarretia	Polemoniaceae	annual herb	May-Jul	1B.1	S2	G2
Navarretia setiloba	Piute Mountains navarretia	Polemoniaceae	annual herb	Apr-Jul	1B.1	S2	G2
Opuntia basilaris var. brachyclada	short-joint beavertail	Cactaceae	perennial stem succulent	Apr-Jun(Aug)	1B.2	S3	G5T3
Orcuttia californica	California Orcutt grass	Poaceae	annual herb	Apr-Aug	1B.1	S1	G1
Phacelia hubbyi	Hubby's phacelia	Hydrophyllaceae	annual herb	Apr-Jul	4.2	S4	G4
Phacelia mohavensis	Mojave phacelia	Hydrophyllaceae	annual herb	Apr-Aug	4.3	S4	G4Q
Pseudognaphalium leucocephalum	white rabbit-tobacco	Asteraceae	perennial herb	(Jul)Aug-Nov(Dec)	2B.2	S2	G4
Senecio aphanactis	chaparral ragwort	Asteraceae	annual herb	Jan-Apr(May)	2B.2	S2	G3
Streptanthus campestris	southern jewelflower	Brassicaceae	perennial herb	(Apr)May-Jul	1B.3	S3	G3

Stylocline masonii	Mason's neststraw	Asteraceae	annual herb	Mar-May	1B.1	S1	G1
Symphyotrichum greatae	Greata's aster	Asteraceae	perennial rhizomatous herb	Jun-Oct	1B.3	S2	G2

Suggested Citation

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Quad Name **Newhall**
Quad Number **34118-D5**

Chapter 1 ESA Anadromous Fish

SONCC Coho ESU (T) -
CCC Coho ESU (E) -
CC Chinook Salmon ESU (T) -
CVSR Chinook Salmon ESU (T) -
SRWR Chinook Salmon ESU (E) -
NC Steelhead DPS (T) -
CCC Steelhead DPS (T) -
SCCC Steelhead DPS (T) -
SC Steelhead DPS (E) - **X**
CCV Steelhead DPS (T) -
Eulachon (T) -
sDPS Green Sturgeon (T) -

Chapter 2 ESA Anadromous Fish Critical Habitat

SONCC Coho Critical Habitat -
CCC Coho Critical Habitat -
CC Chinook Salmon Critical Habitat -
CVSR Chinook Salmon Critical Habitat -
SRWR Chinook Salmon Critical Habitat -
NC Steelhead Critical Habitat -
CCC Steelhead Critical Habitat -
SCCC Steelhead Critical Habitat -
SC Steelhead Critical Habitat -
CCV Steelhead Critical Habitat -
Eulachon Critical Habitat -
sDPS Green Sturgeon Critical Habitat -

Chapter 3 ESA Marine Invertebrates

Range Black Abalone (E) -
Range White Abalone (E) -

Chapter 4 ESA Marine Invertebrates Critical Habitat

Black Abalone Critical Habitat -

Chapter 5 ESA Sea Turtles

East Pacific Green Sea Turtle (T) -
Olive Ridley Sea Turtle (T/E) -
Leatherback Sea Turtle (E) -
North Pacific Loggerhead Sea Turtle (E) -

Chapter 6 ESA Whales

Blue Whale (E) -
Fin Whale (E) -
Humpback Whale (E) -
Southern Resident Killer Whale (E) -
North Pacific Right Whale (E) -
Sei Whale (E) -
Sperm Whale (E) -

Chapter 7 ESA Pinnipeds

Guadalupe Fur Seal (T) -
Steller Sea Lion Critical Habitat -

Chapter 8 Essential Fish Habitat

Coho EFH -
Chinook Salmon EFH -
Groundfish EFH -
Coastal Pelagics EFH -
Highly Migratory Species EFH -

Chapter 9 MMPA Species (See list at left)

Chapter 10 ESA and MMPA Cetaceans/Pinnipeds

See list at left and consult the NMFS Long Beach office
562-980-4000

MMPA Cetaceans -

MMPA Pinnipeds -

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ventura Fish And Wildlife Office
2493 Portola Road, Suite B
Ventura, CA 93003-7726
Phone: (805) 644-1766 Fax: (805) 644-3958

In Reply Refer To: January 15, 2020
Consultation Code: 08EVEN00-2020-SLI-0208
Event Code: 08EVEN00-2020-E-00394
Project Name: Old Road over Castaic Creek Project

Subject: Updated list of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed list identifies species listed as threatened and endangered, species proposed for listing as threatened or endangered, designated and proposed critical habitat, and species that are candidates for listing that may occur within the boundary of the area you have indicated using the U.S. Fish and Wildlife Service's (Service) Information Planning and Conservation System (IPaC). The species list fulfills the requirements under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the species list should be verified after 90 days. We recommend that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists following the same process you used to receive the enclosed list. Please include the Consultation Tracking Number in the header of this letter with any correspondence about the species list.

Due to staff shortages and excessive workload, we are unable to provide an official list more specific to your area. Numerous other sources of information are available for you to narrow the list to the habitats and conditions of the site in which you are interested. For example, we recommend conducting a biological site assessment or surveys for plants and animals that could help refine the list.

If a Federal agency is involved in the project, that agency has the responsibility to review its proposed activities and determine whether any listed species may be affected. If the project is a major construction project*, the Federal agency has the responsibility to prepare a biological assessment to make a determination of the effects of the action on the listed species or critical habitat. If the Federal agency determines that a listed species or critical habitat is likely to be adversely affected, it should request, in writing through our office, formal consultation pursuant to section 7 of the Act. Informal consultation may be used to exchange information and resolve conflicts with respect to threatened or endangered species or their critical habitat prior to a

written request for formal consultation. During this review process, the Federal agency may engage in planning efforts but may not make any irreversible commitment of resources. Such a commitment could constitute a violation of section 7(d) of the Act.

Federal agencies are required to confer with the Service, pursuant to section 7(a)(4) of the Act, when an agency action is likely to jeopardize the continued existence of any proposed species or result in the destruction or adverse modification of proposed critical habitat (50 CFR 402.10(a)). A request for formal conference must be in writing and should include the same information that would be provided for a request for formal consultation. Conferences can also include discussions between the Service and the Federal agency to identify and resolve potential conflicts between an action and proposed species or proposed critical habitat early in the decision-making process. The Service recommends ways to minimize or avoid adverse effects of the action. These recommendations are advisory because the jeopardy prohibition of section 7(a)(2) of the Act does not apply until the species is listed or the proposed critical habitat is designated. The conference process fulfills the need to inform Federal agencies of possible steps that an agency might take at an early stage to adjust its actions to avoid jeopardizing a proposed species.

When a proposed species or proposed critical habitat may be affected by an action, the lead Federal agency may elect to enter into formal conference with the Service even if the action is not likely to jeopardize or result in the destruction or adverse modification of proposed critical habitat. If the proposed species is listed or the proposed critical habitat is designated after completion of the conference, the Federal agency may ask the Service, in writing, to confirm the conference as a formal consultation. If the Service reviews the proposed action and finds that no significant changes in the action as planned or in the information used during the conference have occurred, the Service will confirm the conference as a formal consultation on the project and no further section 7 consultation will be necessary. Use of the formal conference process in this manner can prevent delays in the event the proposed species is listed or the proposed critical habitat is designated during project development or implementation.

Candidate species are those species presently under review by the Service for consideration for Federal listing. Candidate species should be considered in the planning process because they may become listed or proposed for listing prior to project completion. Preparation of a biological assessment, as described in section 7(c) of the Act, is not required for candidate species. If early evaluation of your project indicates that it is likely to affect a candidate species, you may wish to request technical assistance from this office.

Only listed species receive protection under the Act. However, sensitive species should be considered in the planning process in the event they become listed or proposed for listing prior to project completion. We recommend that you review information in the California Department of Fish and Wildlife's Natural Diversity Data Base. You can contact the California Department of Fish and Wildlife at (916) 324-3812 for information on other sensitive species that may occur in this area.

[*A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.]

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Ventura Fish And Wildlife Office
2493 Portola Road, Suite B
Ventura, CA 93003-7726
(805) 644-1766

Project Summary

Consultation Code: 08EVEN00-2020-SLI-0208

Event Code: 08EVEN00-2020-E-00394

Project Name: Old Road over Castaic Creek Project

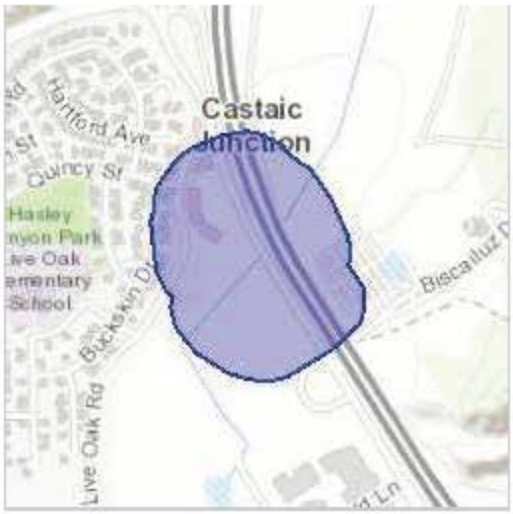
Project Type: BRIDGE CONSTRUCTION / MAINTENANCE

Project Description: The purpose and need of the approximately 0.5-acre project is to conduct necessary seismic retrofit on the existing The Old Road over Castaic Bridge in order to maintain proper function and use of the bridge. The bridge is located along The Old Road where it crosses over Castaic Creek in the Val Verde area of unincorporated Los Angeles County, California.

The proposed seismic retrofit would include removal and repair of unsound concrete at the pile extensions; adding 7-inch diameter steel micro-piles (typically by drilling), construction of foundations and infill walls at the piers; and the construction of seat extenders and shear keys at the bridge abutments and piers. Construction activities will include soil excavation (up to 12 feet in depth) from within the shoring system surrounding the proposed footings, or soil excavation on a 1:1 slope in lieu of or in combination with the installation of the shoring system due to low overhead clearance under the bridge; injection grouting under the footing pad (to a 5 feet in depth); concrete work for footings, infill walls, and catcher blocks/seat extenders; and backfill and compaction of soil removed from within the shoring system. All work would be performed within the existing right-of-way; however, temporary construction easements along The Old Road over Castaic Creek will be necessary.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/34.4512740215379N118.61532580061225W



Counties: Los Angeles, CA

Endangered Species Act Species

There is a total of 15 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Birds

NAME	STATUS
California Condor *Gymnogyps californianus* Population: U.S.A. only, except where listed as an experimental population There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8193	Endangered
Coastal California Gnatcatcher *Polioptila californica californica* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8178	Threatened
Least Bell's Vireo *Vireo bellii pusillus* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5945	Endangered
Southwestern Willow Flycatcher *Empidonax traillii extimus* There is **final** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6749	Endangered

Amphibians

NAME	STATUS
Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus* There is **final** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3762	Endangered
California Red-legged Frog *Rana draytonii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened

Fishes

NAME	STATUS
Unarmored Threespine Stickleback *Gasterosteus aculeatus williamsoni* There is **proposed** critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/7002	Endangered

Crustaceans

NAME	STATUS
Riverside Fairy Shrimp *Streptocephalus woottoni* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8148	Endangered
Vernal Pool Fairy Shrimp *Branchinecta lynchi* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

Flowering Plants

NAME	STATUS
California Orcutt Grass *Orcuttia californica* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4923	Endangered
Gambel's Watercress *Rorippa gambellii* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4201	Endangered
Marsh Sandwort *Arenaria paludicola* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2229	Endangered
Nevin's Barberry *Berberis nevinii* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8025	Endangered
Slender-horned Spineflower *Dodecahema leptoceras* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4007	Endangered
Spreading Navarretia *Navarretia fossalis* There is **final** critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1334	Threatened

Critical habitats

There are 2 critical habitats wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus* https://ecos.fws.gov/ecp/species/3762#crithab	Final
Southwestern Willow Flycatcher *Empidonax traillii extimus* https://ecos.fws.gov/ecp/species/6749#crithab	Final

Appendix D – Least Bell's Vireo Survey Report

LEAST BELL'S VIREO (*VIREO BELLII PUSILLUS*) PROTOCOL SURVEY REPORT

THE OLD ROAD OVER CASTAIC CREEK PROJECT,

LOS ANGELES COUNTY, CALIFORNIA

Prepared for	County of Los Angeles Department of Public Works 900 South Fremont Avenue Alhambra, California 91803-1331
Prepared by	GPA Consulting 231 California Street 305 South Kalorama Street, Suite B, Ventura, CA 93001

August 2019

1.0 INTRODUCTION

This report presents the findings of the protocol presence/absence surveys conducted by GPA Consulting (GPA) biologist(s) in 2019 for the least Bell's vireo (*Vireo bellii pusillus*) for the Old Road Over Castaic Creek (Bridge No. 53C-1403) project at Castaic Creek.

1.1 Project Description

The County of Los Angeles Department of Public Works (LADPW) proposes to perform a seismic retrofit of The Old Road bridge over Castaic Creek in Castaic, an unincorporated community of Los Angeles County (see **Appendix A: Figure 1**). Seismic retrofitting of the existing bridge is needed to bring it into conformance with current seismic standards, specifically, with the Caltrans Bridge Design Specifications and Caltrans Seismic Design Criteria. The project is being proposed by LADPW because the existing bridge support piles are in an advanced state of cracking and strength decline and, as a result, the bridge is not equipped to withstand seismic activity, and is, therefore, considered a safety hazard. The proposed seismic retrofitting would include the construction of seat extenders and shear keys at the existing bridge abutments and piers; replacement of the existing concrete piles with new, steel, 7-inch micro piles at the piers (typically by drilling); construction of infill walls and new foundation, and the removal and repair of unsound concrete.

The existing concrete bridge was constructed in 1945 and is 247.1 feet long and 35.1 feet wide. The existing bridge is comprised of seven spans suspended above Castaic Creek. Under existing conditions, the bridge is supported on 16-inch square, precast reinforced concrete piles. The piles are 35 feet long at the bents and 20 feet long at the abutments. The ground surface elevation of the creek bed, at the project site, is at an average elevation of approximately 1,020 feet above mean sea level (msl). The creek banks are lined with heavy rock. The existing approach embankments are at an approximate surface elevation of 1,035 feet above msl.

The Old Road bridge over Castaic Creek is within suitable habitat for federally listed riparian bird species, including the least Bell's vireo. Protocol level presence/absence surveys for this species were conducted within the Biological Study Area (BSA). The BSA is approximately 27.16 acres and includes the creek, roadway, bridge, drainage culvert that crosses under The Old Road, and adjacent developed areas. Within the BSA, the least Bell's vireo survey area includes all riparian areas along Castaic Creek and unnamed drainages (see **Appendix A**: **Figure 2** and **Figure 3**). The BSA is surrounded by commercial properties, residences, a correctional facility, and open space. Vegetation communities include Fremont Cottonwood-Red Willow (*Populus Fremontii-Salix Laevigata* Forest Alliance) and Arroyo Willow Thickets (*Salix Lasiolepis* Shrubland Alliance), which are potentially suitable habitat for the least Bell's vireo.

2.0 SPECIES ACCOUNT

The least Bell's vireo breeds in southern California and northwestern Baja California, with the majority of the population located in San Diego County. The least Bell's vireo is a small, migratory insectivore that prefers dense riparian vegetation for foraging and nesting. The California Department of Fish and Wildlife (CDFW) listed the least Bell's vireo as endangered in 1980 (CDFW, 2016) and the United States Fish and Wildlife Service (USFWS) listed the least Bell's vireo as endangered in 1986 (USFWS, 1986). Critical habitat

was designated in 1994 along the southwestern coastline of California south of Santa Barbara (USFWS, 1994).

Historically, the least Bell's vireo was a common to locally abundant species found in lowland riparian habitats between northern California and coastal southern California. However, loss of riparian habitats and brown-headed cowbird (*Molathrus ater*) parasitism led to a large population decline. When the USFWS first listed the bird in 1986, the population was estimated to be just 300 pairs. The latest Five Year Review by USFWS, dated September 2006, reported a 10-fold increase in population size since the time of its listing to an estimated 2,968 territories (one pair per territory) (USFWS, 2006).The vireo population increase is largely attributed to brown-headed cowbird control and habitat restoration and preservation (Kus B. E., 1999), (Kus & Whitfield, 2005).

Least Bell's vireos typically begin to arrive at their breeding grounds by mid to late March. Males tend to arrive first and establish territories; females arrive a few days later. Site fidelity is high among adult least Bell's vireos, with many birds returning to the same territory each year and even using the same shrub as in previous years (Salata, 1983) (Kus, 2002). Nests are typically placed within one meter (3.28 feet) of the ground in dense shrubby riparian habitat, and a diverse canopy height is required for foraging, with willows often dominating the canopy layer (Salata, 1983). Nesting lasts from early April through July, at which time some individuals may begin to depart; however, most adults and juvenile birds remain at the breeding grounds into late September/early October. In southern California, least Bell's vireo nest sites are most frequently located in riparian stands between five and 10 years old (San Diego Association of Governments and Regional Environmental Consultants (SANDAG and RECON), 1990). Based on rigorous statistical analysis of least Bell's vireo habitat structure and composition, this species appears to preferentially select sites with large amounts of shrub and tree cover, a large degree of vertical stratification, and small amounts of aquatic and herbaceous cover (San Diego Association of Governments and Regional Environmental Consultants (SANDAG and RECON), 1990).

3.0 SURVEY METHODS

Methods for the focused least Bell's vireo surveys adhered to the recommended guidelines provided by the USFWS for presence/absence surveys (USFWS, 2001). GPA biologist Sheri Mayta conducted eight presence/absence surveys for the least Bell's vireo within potentially suitable habitat in the BSA. Surveys were conducted between April 13, 2019 and July 31, 2019 (see **Table 1**). All visits were performed during morning hours prior to 11:00 AM, when the least Bell's vireo is most active, and included frequent stops to look for individuals and listen for vocalizations (songs and/or scolds). A list of all species is included in **Appendix B**. Representative photographs of the habitat were taken during the surveys (See **Appendix C**). Surveys were not conducted during inclement weather such as extreme hot or cold temperatures, fog, high winds, or rain (**Table 1**).

Table 1. Least Bell's Vireo Survey Schedule and Conditions

Date	Time (AM)	Temperature Fahrenheit (°F)	Wind Speed (mph) and Direction	Cloud Cover Percent (%)	Surveyor	Species Detected
4/13/2019	09:30 - 11:00	66 - 70	4-5 ENE	clear, sunny	SM	No

Table 1. Least Bell's Vireo Survey Schedule and Conditions

Date	Time (AM)	Temperature Fahrenheit (°F)	Wind Speed (mph) and Direction	Cloud Cover Percent (%)	Surveyor	Species Detected
4/23/2019	09:00 - 10:34	79.5 - 84	0.4-4.8 NNE	clear, sunny	SM	No
5/3/2019	08:45 - 10:47	81.5 - 86.8	1.2-1.3 WSW	cloudy, overcast	SM	No
5/15/2019	08:00 - 9:15	61- 63	0-2 SW	cloudy, overcast	SM	No
6/12/2019	8:32 - 9:40	71 - 76	0.1-0.6 WSW	clear, sunny	SM	No
6/24/2019	9:30 - 10:50	63 - 66	0.8-2 WSW	clear, sunny	SM	No
7/18/2019	9:30 - 10:30	79 - 92	0-1 WSW	clear, sunny	SM	No
7/31/2019	8:35 – 9:55	74 - 77	0 -1 WSW	Partly cloudy	SM	No

SM = Sheri Mayta

4.0 SURVEY RESULTS

Least Bell's Vireo

No least Bell's vireos were detected during the 2019 focused surveys (**Table 1**). Fremont Cottonwood-Red Willow Forest and Arroyo Willow Thickets provide moderate foraging and marginal nesting habitat for this species within the BSA. These vegetation communities contain the understory structure necessary to provide breeding habitat for this species but are limited in area. Although no vireos were detected during these surveys, the BSA has the potential to support breeding least Bell's vireo.

5.0 REFERENCES

CDFW. (2016). *State and federally listed endangered and threatened animals of California. July.*

Kus, B. E. (1999). *Impacts of Brown-headed Cowbird parasitism on the productivity of the endangered Least Bell's Vireo. Studies in Avian Biology 18:10-166.*

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USFWS. (1986). *ECOS Environmental Conservation Online System.* Retrieved from Least Bell's Vireo Federal Register Documents: https://ecos.fws.gov/docs/federal_register/fr1129.pdf

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USFWS. (2006). *Least Bell's Vireo 5-Year Review Summary and Evaluation.* Carlsbad, California: USFWS. Retrieved from https://www.fws.gov/carlsbad/SpeciesStatusList/5YR/20060926_5YR_LBV.pdf

Whitfield, K. a. (2005). *Parasitism, Productivity, and Population Growth: Response of Least Bell's Vireos (Bireo bellii pusillus) and Southwestern Willow Flycatchers (Empidonax traillii extimus) to Cowbird (Molothrus spp.) Control.* Retrieved from https://www.researchgate.net/publication/260363793_Parasitism_Productivity_and_Population_Growth_Response_of_Least_Bell's_Vireos_Vireo_bellii_pusillus_and_Southwestern_Willow_Flycatchers_Empidonax_traillii_extimus_to_Cowbird_Molothrus_spp_Control

APPENDIX A. FIGURES



FIGURE 1. REGIONAL LOCATION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

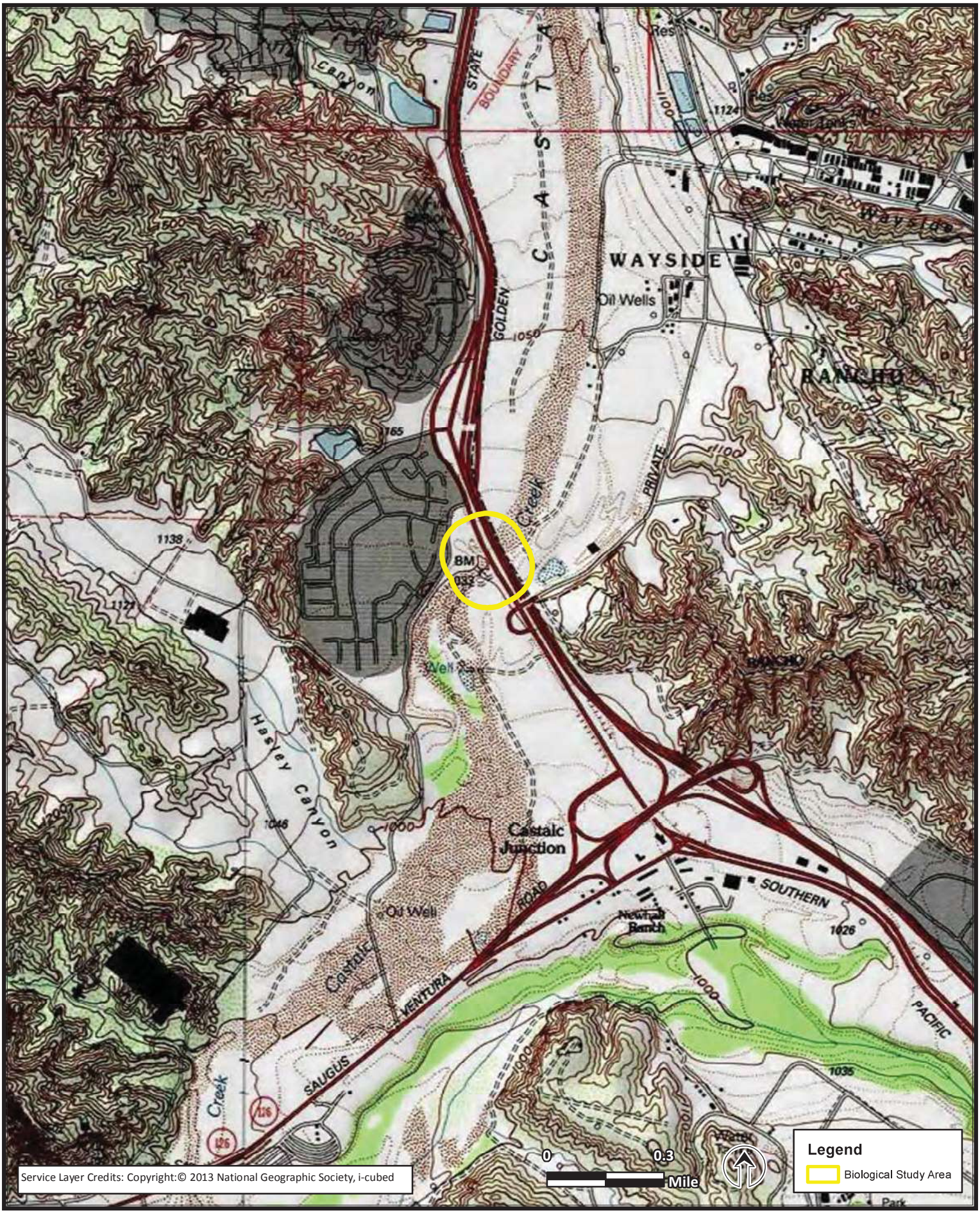


FIGURE 2. PROJECT LOCATION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

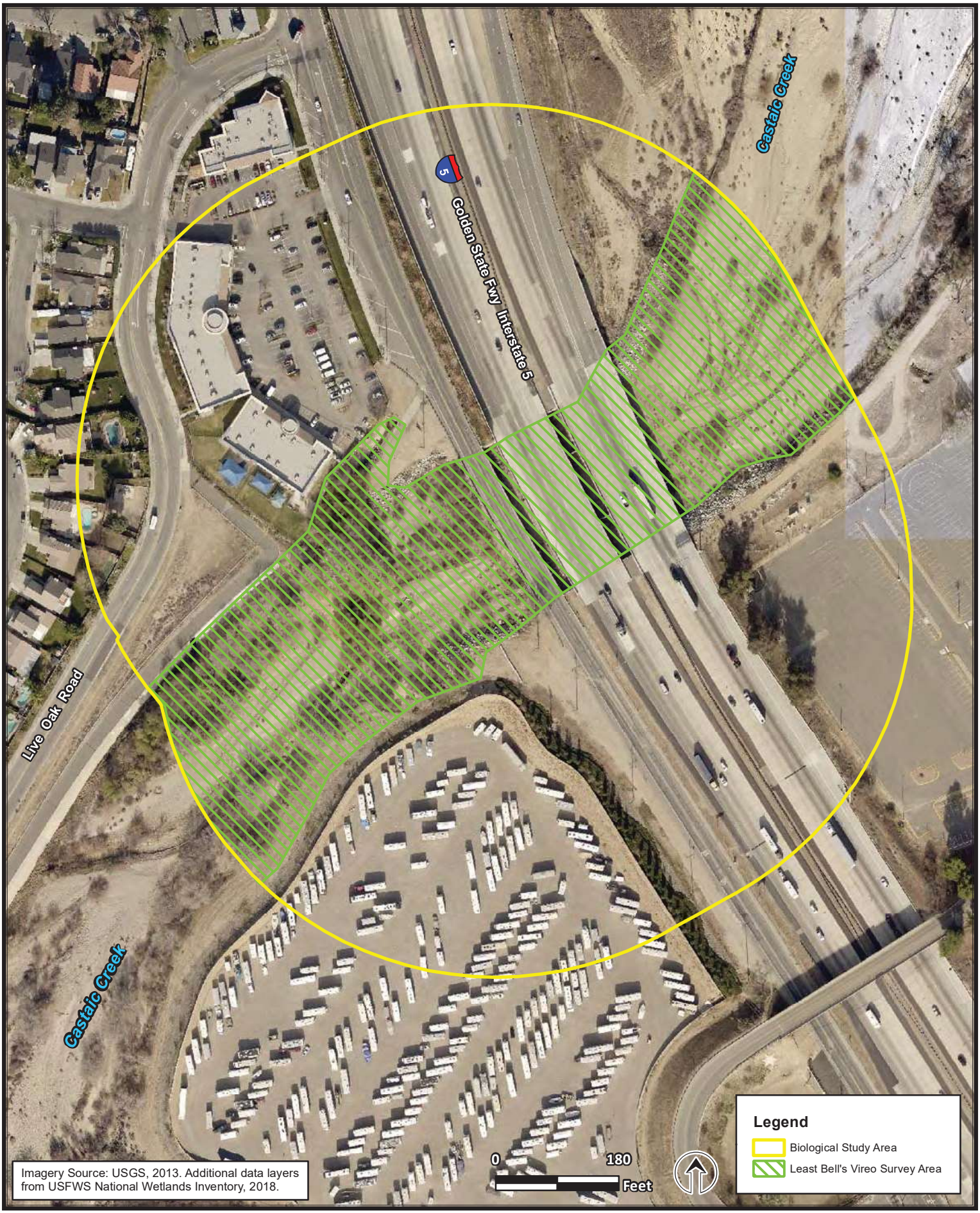


FIGURE 3. BIOLOGICAL STUDY AREA AND LEAST BELL'S VIREO SURVEY AREA
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

APPENDIX B. SPECIES OBSERVED DURING SURVEY

Species Observed

Scientific Name	Common Name	Special Status
Aeronautes saxatalis	white-throated swift	
Accipiter cooperii	Cooper's hawk	
Aphelocoma californica	California scrub-jay	
Baeolophus inornatus	oak titmouse	
Calypte anna	Anna's hummingbird	
Cathartes aura	turkey vulture	
Columba livia	rock pigeon	
Corvus brachyrhynchos	American crow	
Corvus corax	common raven	
Dryobates nuttallii*	**Nuttall's woodpecker**	
Haemorhous mexicanus	house finch	
Icterus cucullatus	hooded oriole	
Melospiza melodia	song sparrow	
Melozone crissalis	California towhee	
Picoides nuttallii	Nuttall's woodpecker	
Psaltriparus minimus	bushtit	
Sayornis nigricans	black phoebe	
Sayornis saya	Say's phoebe	
Selasphorus sasin	Allen's hummingbird	
Setophaga coronata	yellow-rumped warbler	
Setophaga petechia	yellow warbler	
Spinus psaltria	lesser goldfinch	
Stelgidopteryx serripennis	northern rough-winged swallow	
Streptopelia decaocto	Eurasian collared-dove	
Thryomanes bewickii	Bewick's wren	
Tyrannus verticalis	Western kingbird	
Zenaida macroura	mourning dove	
Zonotrichia leucophrys	white-crowned sparrow	

***Bolded species** = confirmed to be nesting

APPENDIX C. PHOTOGRAPHS OF STUDY AREA



Photo 1. Fremont Cottonwood-Red Willow Forest southwest of The Old Road bridge (bridge) along Unnamed Drainage 1 on west side of Castaic Creek (creek) (April 13, 2019); view looking south



Photo 2. Cattail Marsh adjacent to Arroyo Willow Forest southwest of bridge along Unnamed Drainage 2 (April 23, 2019); view looking north



Photo 3. Mulefat-Scale Broom Thickets along both banks of creek north of bridge (May 3, 2019); view looking north



Photo 4. Mulefat-Scale Broom Thickets along west bank of creek north of bridge (May 3, 2019); view looking northeast



Photo 5. Fremont Cottonwood-Red Willow Forest on west bank of creek (May 3, 2019); view looking southeast



Photo 6. Tamarisk and Fremont cottonwood along west bank of creek south of bridge (May 15, 2019); view looking northwest



Photo 7. Fremont cottonwood and arroyo willow on west bank of creek south of bridge (May 15, 2019); view looking west



Photo 8. Giant Reed Stand south of bridge on south bank of creek (June 24, 2019); view looking northeast



Photo 9. Tamarisk on west bank of creek south of bridge (May 23, 2019); view looking north



Photo 10. Castaic Creek, south of bridge (June 24, 2019); view looking north



Photo 11. Castaic Creek south of bridge (June 24, 2019); view looking north



Photo 12. West bank of creek south of Fremont Cottonwood-Red Willow Forest (June 24, 2019); view looking north



Photo 13. Sandbar willow south of bridge along Unnamed Drainage 1 (June 24, 2019); view looking south

Appendix E – Jurisdictional Delineation Report

AQUATIC RESOURCE DELINEATION REPORT

The Old Road Over Castaic Creek (Bridge No. 53C-1403), Castaic, California

July 2019

Prepared By:
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GPA Consulting
305 South Kalorama Street, Suite B
Ventura, CA 93001

Prepared For:
Albert Anidi, Supervising Civil Engineering Assistant
County of Los Angeles Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803-1331

and

United States Army Corps of Engineers
Los Angeles District
915 Wilshire Boulevard
Los Angeles, CA 90017

EXECUTIVE SUMMARY

The County of Los Angeles Department of Public Works (LADPW) proposes to perform a seismic retrofit of The Old Road bridge (bridge) over Castaic Creek (creek) in Castaic, an unincorporated community of Los Angeles County. The Biological Study Area (BSA) includes the creek, roadway, bridge, drainage culvert that crosses under The Old Road, and adjacent developed areas.

The definition and methodology for identifying wetland resources in the BSA can be found in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (United States Army Corps of Engineers, 2008), which is a supplement to the *Corps of Engineers Wetlands Delineation Manual* (United States Army Corps of Engineers, 1987). The delineation for waters was conducted in accordance with *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (United States Army Corps of Engineers, 2008).

The BSA includes areas that could be directly or indirectly impacted by the project, either temporarily or permanently. The limits of the BSA were determined by reviewing project plans and aerial photography, as well as evaluating potential jurisdictional areas during a field visit. The BSA is approximately 27.16 acres. The BSA is surrounded by commercial properties, residences, a correctional facility, and open space. Delineated areas within the BSA include Castaic Creek. There is approximately 0.09 acre of wetlands and 1.15 acres of non-wetland waters of the U.S. within the BSA. Within the BSA aquatic resources are classified as (1) Riverine, Intermittent Streambed, Cobble-Gravel, Seasonally Flooded, (2) Palustrine, Emergent, Persistent, and (3) Palustrine, Forested, Broad-leaved Deciduous.

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ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
BSA	Biological Study Area
CA-59	California 59
CA-99	California 99
CDFW	California Department of Fish and Wildlife
CWA	Clean Water Act
FAC	facultative
FACU	facultative upland
FACW	facultative wetland
FE	federally endangered
FT	federally threatened
GIS	Geographic Information System
I-80	Interstate 80
LADPW	Los Angeles Department of Water and Power
MSL	mean sea level
NRCS	Natural Resource Conservation Service
NWI	National Wetlands Inventory
OBL	obligate wetland
OHWM	ordinary high water mark
RWQCB	Regional Water Quality Control Board
SE	state endangered
SR	state rare
ST	state threatened
UPL	obligate upland
U.S.	United States
USACE	United States Army Corps of Engineers
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

1.0 INTRODUCTION

This Aquatic Resource Delineation describes the baseline data and preliminary results regarding the type, amount, and extent of wetlands and other waters of the United States (U.S.) within The Old Road Over Castaic Creek (Bridge No. 53C-1403) (project). The Aquatic Resource Delineation also describes the type, amount, and extent of wetlands and waters under jurisdiction of the Regional Water Quality Control Board (RWQCB) and the California Department of Fish and Wildlife (CDFW).

1.1 Project Description

The County of Los Angeles Department of Public Works (LADPW) proposes to perform a seismic retrofit of The Old Road bridge over Castaic Creek in Castaic, an unincorporated community of Los Angeles County (see **Appendix A**: **Figure 1** and **Figure 2**). Seismic retrofitting of the existing bridge is needed to bring it into conformance with current seismic standards, specifically, with the Caltrans Bridge Design Specifications and Caltrans Seismic Design Criteria. The project is being proposed by LADPW because the existing bridge support piles are in an advanced state of cracking and strength decline and, as a result, the bridge is not equipped to withstand seismic activity, and is, therefore, considered a safety hazard. The proposed seismic retrofitting would include the construction of seat extenders and shear keys at the existing bridge abutments and piers; replacement of the existing concrete piles with new, steel, 7-inch micro piles at the piers (typically by drilling); construction of infill walls and new foundation, and the removal and repair of unsound concrete.

The existing concrete bridge was constructed in 1945 and is 247.1 feet long and 35.1 feet wide. The existing bridge is comprised of seven spans suspended above Castaic Creek. Under existing conditions, the bridge is supported on 16-inch square, precast reinforced concrete piles. The piles are 35 feet long at the bents and 20 feet long at the abutments. The ground surface elevation of the creek bed, at the project site, is at an average elevation of approximately 1,020 feet above mean sea level (MSL). The creek banks are lined with heavy rock. The existing approach embankments are at an approximate surface elevation of 1,035 feet above MSL.

1.2 Contact Information

Contact information for the County is:

Albert Anidi, Supervising Civil Engineering Assistant
County of Los Angeles Department of Public Works
900 South Fremont Avenue
Alhambra, California 91803-1331

2.0 LOCATION

The Biological Study Area (BSA) is along The Old Road in the unincorporated community of Castaic, Los Angeles County, California. There is no section, township, and range for this area. Driving directions to the project area from the United States Army Corps of Engineers (USACE) Los Angeles office (915 Wilshire Boulevard, Los Angeles, California, 90017) are as follows:

From the USACE Los Angeles Office take Interstate 110 North/Harbor Freeway (I-110), use the left two

lanes to take exit 26A for Interstate 5 North/Golden State Freeway (I-5) toward Sacramento. Keep left and follow signs for I-5 North then merge onto I-5 North. Keep left at the fork to stay on I-5 North. Use the second lane from the right lane to take exit 173 for Hasley Canyon Road. At the traffic circle, take the second exit onto Hasley Canyon Road. At the next traffic circle, take the third exit onto The Old Road. Continue straight for approximately 0.3 mile.

3.0 METHODS

3.1 Biological Study Area

The BSA includes areas that could be directly or indirectly impacted by the project, either temporarily or permanently. The limits of the BSA were determined by reviewing project plans and aerial photography, as well as evaluating potential jurisdictional areas during a field visit. The BSA is approximately 27.16 acres and includes the creek, roadway, bridge, drainage culvert that crosses under The Old Road, and adjacent developed areas (see **Appendix A**: **Figure 3**). The BSA is surrounded by commercial properties, residences, a correctional facility, and open space.

3.2 Literature Review

A literature review was conducted to guide the field survey and locate areas of potential jurisdictional wetlands and other waters of the U.S. as well as any special-status species and/or habitats previously recorded within or near the BSA.

United States Geologic Survey Topographic Quadrangles

United States Geological Survey (USGS) topographical maps illustrate the physical setting of an area through topographic contour lines and other major surface features. Features shown on USGS topographical maps include lakes, streams, rivers, buildings, roadways, landmarks, and other features that may fall under the jurisdiction of one or more regulatory agency. The USGS Newhall 7.5-minute quadrangle, which covers the BSA, was reviewed (United States Geological Survey, 2018).

Soil Data

The presence of hydric soils is one of the primary indicators of jurisdictional wetlands. The Natural Resource Conservation Service (NRCS) soil data can help to determine the types of soils within a project area. The Soils Survey of Antelope Valley Area, California, which covers the BSA, was reviewed (see **Appendix A**: **Figure 4** and **Appendix B** for soil report) (Natural Resources Conservation Service, 2019).

United States Fish and Wildlife Service National Wetlands Inventory

The National Wetlands Inventory (NWI) Wetlands Mapper provides an online geospatial reference for the locations and classifications of known wetlands and aquatic sites based on the *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, Carter, Golet, & LaRoe, 1979). The NWI was reviewed to identify any recorded wetlands in the BSA, and to support research on waterway connectivity (see Error! Reference source not found., **Figure 5**).

Aerial Imagery

Historic aerial images on Google Earth were reviewed to investigate and describe hydrology within the BSA and support determinations on connectivity between the creek and downstream navigable waters. Images of the BSA from 1994, 2002, 2008, 2012, and 2016 were reviewed (Google Earth, 2019).

3.3 Definition of Wetlands

Hydrophytic Vegetation

Hydrophytes are plant species that are specialized to survive in permanently or periodically saturated soils where oxygen levels are typically very low, or the soils are anaerobic. The USACE and United States Fish and Wildlife Service (USFWS) have identified over 2,000 plant species of this type in California and nearly 5,000 species throughout the U.S. (Lichavar, Banks, Kirchner, & Melvin, 2016). The wetland indicator categories reflect the range of estimated probability (expressed as a frequency of occurrence) that a species grows in wetlands versus non-wetlands. For example, a frequency of 67 percent to 99 percent means that 67 percent to 99 percent of sample plots containing the species randomly selected across the range of the species would be wetlands.

Species not noted in the *State of California 2016 Wetland Plant List* are considered to be upland (UPL) species. Plant indicator status categories are as follows:

- Obligate Wetland (OBL): Plants that grow usually (estimated probability 99 percent) in wetlands under natural conditions, but which may also grow rarely (estimated probability one percent) in non-wetlands.
- Facultative Wetlands (FACW): Plants that grow usually (estimated probability 67 to 99 percent) in wetlands, but also grow (estimated probability one to 33 percent) in non-wetlands.
- Facultative (FAC): Plants with similar likelihood (estimated probability 34 to 66 percent) of growing in both wetlands and non-wetlands.
- Facultative Upland (FACU): Plants that grow sometimes (estimated probability one to 33 percent) in wetlands but grow more often (estimated probability 67 to 99 percent) in non-wetlands.
- Obligate Upland (UPL): Plants that grow rarely (estimated probability one percent) in wetlands but grow usually (estimated probability 99 percent) in non-wetlands under natural conditions.

Three indicators, discussed below, were used for determining the presence of hydrophytic vegetation in the BSA, as identified in the Arid West Supplement (2008). In general, hydrophytic vegetation is considered present if any of the indicator tests are satisfied. If none of the indicators are satisfied, then hydrophytic vegetation is considered absent unless (1) indicators of hydric soil and wetland hydrology are present and (2) the site meets the requirements for a “problematic” wetland situation.

Dominance Test: In this test, vegetative cover is estimated and ranked according to plant species dominance in the sample plot (soil test pit) vicinity. Dominant plant species are species that are the most abundant species for each stratum of the plant community (i.e., tree, sapling/shrub, herb, or woody vine). Dominant species are species that individually or collectively amount to 50 percent of the total coverage

of vegetation, or a species that, by itself, accounts for 20 percent of the total vegetation cover (this is known as the "50/20 Rule").

Dominant plant species were recorded on the data forms based on observations in the field. The wetlands indicator status of each plant species was also recorded on the data forms based on the *State of California 2016 Wetland Plant List* (Lichavar, Banks, Kirchner, & Melvin, 2016) (Wetland Plant List). If greater than 50 percent of the dominant species across all strata were OBL, FACW, or FAC species, hydrophytic vegetation was considered present. The dominance test was used for this project.

Prevalence Index: In this test, all plant species in a community are considered within the sample plot, rather than only the dominant species. The prevalence index ranges from one to five and is the average of the wetland indicator status of all plant species in the sampling plot. Each indicator status category is given a numeric code (e.g., OBL=1, FACW=2, FAC=3, FACU=4, and UPL=5) and weighted by the species' abundance (percent cover) within the sample plot. Then, the weighted average of all vegetation within the plot is calculated to determine the prevalence index. If the calculated prevalence index is three or less, then hydrophytic vegetation is considered present. The prevalence index was not used for this project.

Morphological Adaptation: In this test, morphological adaptations, which are features that plants may acquire after years in saturated soil conditions, such as adventitious roots (i.e., roots that grow out of the sides of the tree trunk), shallow root systems, or buttressed trunks, are considered. The Morphological Adaptation test was not used for this project.

Hydric Soils

The National Technical Committee for Hydric Soils defines a hydric soil as a soil that is formed under conditions of saturation, flooding, or ponding that remains long enough during the growing season to develop anaerobic conditions (or conditions of limited oxygen) at or near the soil surface, and that favor the establishment of hydrophytic vegetation (United States Department of Agriculture, Natural Resource Conservation Service, 2018). The growing season is defined as the portion of the year when soil temperature (measured 20 inches below the surface) is above 41 degrees Fahrenheit. Hydric soils created under artificial conditions of flooding and inundation sufficient for the establishment of hydrophytic vegetation also meet the definition for hydric soils.

Some soils are considered problematic, such as sandy soils in areas of frequent flooding. Recently deposited soils have little or no development of soil horizons and can typically be found on unstable landscapes such as floodplains. The Arid West Supplement describes several problematic soil situations in the Arid West Region where soils are considered hydric soils as long as wetland hydrology and vegetation criteria are met. Page 97 of the Arid West Supplement states:

"Course-textured soils commonly occur on vegetated bars above the active channel of rivers and streams. In some cases, these soils lack hydric soil indicators due to seasonal annual deposition of new soil material, low iron or manganese content, and low organic matter content."

Hydric soil conditions were investigated by excavating holes known as soil test pits at specific sampling points. The soil test pits were excavated to the depth necessary to document changes in substrate and hydric soil indicators, or to confirm the absence of hydric soil indicators. Where necessary, soil layers

extracted from each soil test pit were examined for texture and color using the standard plates within the Munsell Soil Color Chart (Munsell Color (Firm), 2009), and texture and color results were recorded on the data forms. The Munsell Soil Color Chart aids in designating soil types by color labels based on gradations of hue, value, and chroma. Other indicators of hydric soils were also assessed and recorded on the data forms if applicable, including, but not limited to, hydrogen sulfide odor, buried organic matter, organic streaking, reduced (redox) soil conditions, and gleyed soil color (i.e., soils having a characteristic bluish-gray or low-chroma soils).

Wetland Hydrology

Indications of wetland hydrology can include surface flows, the depth of flood inundation, the depth to saturated soils, drift lines on vegetation, and the depth to the water table in soil test pits, which were excavated to test for hydric soils and confirm the wetland boundary. The presence of wetland hydrology was assessed at each sampling point. Soil test pits were excavated at the sampling points and were checked for observable evidence of hydric soils and hydrology.

3.4 Definition of Ordinary High Water Mark

The ordinary high water mark (OHWM) is essentially the "line" on the bank or shore created by water fluctuations. The OHWM in Arid West streams highly corresponds with the boundaries of the active floodplain. In Arid West systems, the active floodplain tends to display characteristics of longer-term streamflow conditions that become more stable over time. Consistently associated physical indicators of the OHWM throughout the United States Arid West Region, include topographic break in slope, change in vegetation characteristics, and change in sediments. The appearance of the active floodplain and the degree to which each indicator is expressed varies depending on location, season, geology, vegetation, recent flow history, and other controlling factors.

3.5 Field Delineation

The BSA was surveyed by GPA biologists Katherine Warner and Sheri Mayta on February 26, 2019 and by Ms. Mayta on April 24, 2019. The delineation of the ordinary OHWM was conducted in accordance with *A Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States* (United States Army Corps of Engineers, 2008). The delineation of wetlands was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* (United States Army Corps of Engineers, 1987), the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (Version 2.0)* (United States Army Corps of Engineers, 2008), and the Los Angeles District's *Minimum Standards for Acceptance of Aquatic Resources Delineation Reports* (USACE, 2017). The most recent *National Wetland Plant List* (Lichvar et al. 2016) was used to determine the wetland indicator status of plants observed in the sampling points. The *Jepson eflora* (Jepson Flora Project, 2016) was used for plant nomenclature. Photo points were taken near each sampling pit to document site conditions (see **Appendix A: Figure 6.** and **Appendix C)**.

Ordinary High Water Mark

One transect, representative of the creek channel and in close proximity to construction limits within the BSA, was selected to delineate the OHWM. Along the transect, geographic coordinates and information

on slope, sediment texture, vegetation, and any drift or ripples was recorded on an OHWM Delineation Datasheet (see **Appendix D**).

Wetland Delineation

The field delineation included an on-site analysis of vegetation, soils, and hydrology within the BSA. Castaic creek was visually inspected for wetland indicators and general physical and biological characteristics such as topography, flowing water, drainage patterns, and presence of wetland plants.

Four sampling points (two pairs) were selected within the BSA that appeared to exhibit wetland indicators, or where conditions were uncertain, to confirm whether these locations meet the wetland parameters for the USACE, and to determine the boundary of wetlands. At each sampling point, information on vegetation, soils, and hydrology was recorded on a Wetland Determination Data Form (Arid West Region) (see **Appendix E**). A soil test pit was excavated at each sampling point, to a depth necessary to determine wetland parameters, and the soil was evaluated for hydric indicators. Plots were delineated around each soil test pit, and plant species composition, cover, and dominance were recorded.

3.6 Classification of Wetland Types

Areas meeting the definition of wetlands and/or non-wetland waters of the U.S. within the BSA were classified using *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin, Carter, Golet, & LaRoe, 1979). Wetlands are classified using this system by identifying the delineated area's major class association (Riverine, Palustrine, Lacustrine, Estuarine, or Marine), general vegetation cover types, primary sources of hydrology, and factors related to the origin of the wetland. This system is the most widely accepted wetlands classification system, and it is currently used for the NWI mapping system.

4.0 EXISTING CONDITIONS

4.1 Landscape Setting

Topography

The BSA is bordered in the north by the Angeles National Forest, the land to the southeast lies within the unincorporated City of Santa Clarita, and Ventura County is to the southwest. The topography of the BSA is generally flat with an average elevation of approximately 1,026 feet above MSL. The topography of the upstream section of the creek consists of broader, shallower banks while bank slopes are steep and abrupt downstream.

Climate

There is an average of 3.3 inches of rainfall per year in the community. The average annual temperature ranges from a low of 42 degrees Fahrenheit (°F) to a high of 97°F (Weather Spark, 2019).

Precipitation Data and Analysis

To better understand the conditions at the time of the field surveys, climate data was analyzed to determine whether recent rainfall was sufficient to expect normal hydrology indicators to be present at wetland sampling point locations. The closest climate station with available Wetlands Climate Data (WETS) was located approximately 17 miles northeast of the BSA in Saugus, California. WETS and

precipitation data from this station were used to determine if precipitation within the three months prior to the surveys were normal, drier than normal, or wetter than normal. Rainfall amounts are compared to the normal range of the 30-year average.

Table 1 shows the average monthly precipitation in Castaic for the three months prior to the February 25, 2019 survey. Precipitation for November and January is above average for the area and precipitation for December is average for the area.

Table 1. Rainfall Assessment for the Preceding 3-Month Period

Month	Average (in)[1]	30% chance will have		Observed rainfall (in)[2]
		Less Than	More Than	
January	3.42	1.14	3.86	5.81
December	2.55	0.93	2.88	1.63
November	1.41	0.49	1.55	1.70

[1]Average Monthly Rainfall (NRCS WETS Table)
[2]NRCS 2019

Table 2 shows the average monthly precipitation in Castaic for the three months prior to the April 24, 2019 survey. Precipitation for those months is considered above average for the area.

Table 2. Rainfall Assessment for the Preceding 3-Month Period

Month	Average (in)[1]	30% chance will have		Observed rainfall (in)[2]
		Less than	More than	
March	3.06	1.25	3.56	4.54
February	3.97	1.22	4.51	7.96
January	3.42	1.14	3.86	5.81

[1]Average Monthly Rainfall (NRCS WETS Table)
[2]NRCS 2019

Hydrology

The BSA is within the Santa Clara River watershed (HUC 1807010102) (United States Geological Survey, 2018), which covers approximately 1,634 square miles. The hydrologic features within the BSA are Castaic Creek, two unnamed earthen drainages, and a concrete channel leading to one of the unnamed earthen drainages.

Castaic Creek

Castaic Creek is an ephemeral stream that originates from Castaic Lake and terminates approximately 2.55 miles downstream of the bridge at the Santa Clara River, a traditionally navigable waterway, and continues in a southwestern direction. The width of the channel within the BSA ranges from approximately 19 to 102 feet wide. Flows were very high at the time of the survey. Castaic Creek is controlled by a dam upstream at Castaic Lake. Water flows approximately three to five months out of the year, between January and May, when water is released from Castaic Dam. Castaic Creek also receives

perennial surface runoff through culverts from surrounding development. Castaic Creek is under jurisdiction of the USACE, RWQCB, and CDFW.

Unnamed Drainage 1

Unnamed Drainage 1 is an earthen drainage located on the west side of Castaic Creek on the south side of The Old Road. A culvert at The Old Road transports continuous urban runoff into the drainage which terminates approximately 290 feet downstream at Castaic Creek. The width of the drainage ranges from approximately three feet to 10 feet wide. Unnamed Drainage 1 is under jurisdiction of the USACE, RWQCB, and CDFW.

Unnamed Drainage 2

Unnamed Drainage 2 is an earthen drainage located on the west side of Castaic creek and approximately 485 feet south of The Old Road. A concrete levee borders the drainage on the west side. A culvert under the levee transports runoff into the drainage which terminates approximately 385 feet downstream at Castaic Creek. The width of the drainage is approximately 15 feet. Unnamed Drainage 2 is under jurisdiction of the USACE, RWQCB, and CDFW.

Soils

Soils in the BSA consist of Cortina Sandy Loam, 0 to 2 Percent Slopes, Hanford Sandy Loam, 0 to 2 Percent Slopes, Riverwash, and Sandy Alluvial Land.

Cortina Sandy Loam, 0 to 2 Percent Slopes

Cortina Sandy Loam, 0 to 2 Percent Slopes soils are composed of 85 percent Cortina (and similar soils) and 15 percent other minor components. Cortina Sandy Loam, 0 to 2 Percent Slopes soils underlay approximately 13 percent of the BSA and are in the northern portion of the BSA, adjacent to Castaic Creek. This soil is excessively drained and the depth to the water table is approximately 80 inches. These soils are not considered hydric soils.

Hanford Sandy Loam, 0 to 2 Percent Slopes

Hanford Sandy Loam, 0 to 2 Percent Slopes soils are composed of 85 percent Hanford (and similar soils) and 15 percent other minor components. Hanford Sandy Loam, 0 to 2 Percent Slopes soils underlay approximately 47 percent of the BSA and are in the northwest and southeast corners of the BSA. This soil unit is well drained and the depth to the water table is more than 80 inches. These soils are not considered hydric soils.

Riverwash

Riverwash soils are composed of 85 percent Riverwash and 15 percent other minor components. Riverwash soils underlay approximately 32 percent of the BSA, transecting the BSA in a southwest to northeast direction. This soil unit is excessively drained and the depth to the water table is approximately zero inches. These soils are classified as hydric. Riverwash soils are frequently flooded for a long or very long duration during the growing season, which shows evidence that the soil meets the definition of a hydric soil.

Sandy Alluvial Land

Sandy Alluvial Land soils are composed of 85 percent Sandy Alluvial Land and 15 percent other minor components. Sandy Alluvial Land soils underlay approximately eight percent of the BSA and are in the southern portion of the BSA. This soil unit is excessively drained and the depth to the water table is approximately 10 inches. These soils are not considered hydric soils.

Vegetation

Vegetation communities within the BSA were assessed and classified according to *A Manual of California Vegetation, 2nd Edition* (Sawyer et al. 2009). Based on this classification system, 12 vegetation communities and land covers were identified and mapped within the BSA: annual brome grasslands, arroyo willow thickets, California sagebrush scrub, Fremont cottonwood-red willow forest, giant reed breaks, narrow cattail marshes, mulefat-scale broom thickets, tamarisk thickets, thick-leaf yerba santa scrub, disturbed habitat, open water, and urban/developed land. Communities that did not conform to A Manual of California Vegetation, 2nd Edition, were mapped according to their dominant characteristics (see **Appendix A**: **Figure 7**). Each individual vegetation community and land cover is described further detail below.

Native or Naturalized Vegetation Communities

Annual Brome Grasslands (*Bromus Diandrus* Semi-Natural Herbaceous Stands)

Annual brome grasslands include ripgut brome (*Bromus diandrus;* NL) as the dominant herb with other non-native plant species in the herbaceous layer. Emergent trees and shrubs may be present at low cover. This community can have intermittent to continuous cover and is less than 75 centimeters (30 inches) in height (Sawyer et al. 2009). Within the BSA associate species include summer mustard (*Hirschfeldia incana*). This community is located southeast of The Old Road bridge on terraces and upland areas adjacent to Castaic Creek.

Mulefat-Scale Broom Thickets (*Baccharis Salicifolia-Lepidospartum Squamatum* Shrubland Alliance)

Mulefat-scale broom thickets include mulefat (*Baccharis salicifolia*; FAC) and scale broom (*Lepidospartum squamatum*; FACU) as co-dominant shrubs in the canopy. This community has an open to continuous shrub canopy less than two meters (seven feet) in height with a variable ground layer that may be grassy (Sawyer et al. 2009). Within the BSA, associate species include California buckwheat, deerweed (*Acmispon glaber*), ragweed (*Ambrosia psilostachya*), and two-color rabbit tobacco (*Pseudognaphalium biolettii*). This community is located northeast of The Old Road bridge within the main channel of Castaic Creek.

Arroyo Willow Thickets (*Salix Lasiolepis* Shrubland Alliance)

Arroyo Willow Thickets include arroyo willow (*Salix lasiolepis*; FACW) as the dominant shrub in the canopy. Arroyo Willow Thickets have an open to continuous shrub or tree canopy less than 10 meters (33 feet) in height with a variable herbaceous layer (Sawyer et al. 2009). Within the BSA associate species include giant reed (*Arundo donax*) and mulefat, and sandbar willow (*Salix exigua*). This community is located southwest of The Old Road bridge along the terrace on the north side of Castaic Creek.

Thick Leaf Yerba Santa Scrub (*Eriodictyon Crassifolium* Provisional Shrubland Alliance)

Thick leaf yerba santa scrub include thick leaf yerba santa (*Eriodictyon crassifolium*; UPL) is the dominant shrub in the canopy. Thick leaf yerba santa scrub has an intermittent and sometimes two-tiered shrub canopy less than three meters (10 feet) in height with an open herbaceous layer (Sawyer et al. 2009). Within the BSA associate species include California sagebrush (*Artemisia californica*) and California buckwheat (*Eriogonum fasciculatum*). This community is located southwest and northeast of The Old Road bridge along the terraces on the south side and north side of Castaic Creek, respectively.

Fremont Cottonwood-Red Willow Forest (*Populus Fremontii-Salix Laevigata* Forest Alliance)

Fremont cottonwood-red willow forest include Fremont cottonwood (*Populus fremontii*; FAC) and red willow (*Salix laevagata*; FACW) as the co-dominant trees in the canopy. Fremont cottonwood-red willow forest has a continuous to open tree canopy less than 25 meters (82 feet) in height with a variable herbaceous layer and intermittent to open shrub layer (Sawyer et al. 2009). Within the BSA associate species include sandbar willow, mugwort (*Artemisia douglasiana*), and tamarisk (*Tamarix* spp.) This community is located southwest of The Old Road bridge along the Unnamed Drainage 1 on the north side of Castaic Creek.

Tamarisk Thickets (*Tamarix* spp. Semi-Natural Shrubland Stands)

Tamarisk thickets include tamarisk (*Tamarix ramosissima*; FAC) or other tamarisk spp. as the dominant shrub in the canopy. Tamarisk thickets have a continuous or open shrub canopy less than eight meters (26 feet) in height with a sparse herbaceous layer (Sawyer et al. 2009). Species associated with the tamarisk thickets semi-natural alliance include Fremont cottonwood or willow spp. (Sawyer et al. 2009). Within the BSA associate species include mulefat. This community is located immediately southwest of The Old Road bridge along north bank and within the main channel of Castaic Creek.

California Sagebrush Scrub (*Artemisia Californica* Shrubland Alliance)

California sagebrush scrub include California sagebrush (UPL) as the dominant or co-dominant shrub in the canopy. California sagebrush scrub has an intermittent to continuous shrub canopy less than two meters (seven feet) in height with a variable herbaceous layer (Sawyer et al. 2009). Species associated with the California sagebrush scrub alliance include chamise (*Adenostoma fasciculatum*), coyote brush (*Baccharis pilularis*), bladderpod (*Cleome isomeris*), monkeyflower (*Diplacus aurantiacus*), California brittlebush (*Encelia californica*), brittlebush (*Encelia farinosa*), California buckwheat, chaparral yucca (*Hesperoyucca whipplei*), coastal goldenbush (*Isocoma menziesii*), heart-leaved penstemon (*Keckiella cordifolia*), deerweed, coastal prickly pear (*Opuntia littoralis*), lemonade berry (*Rhus integrifolia*), white sage (*Salvia apiana*), purple sage (*Salvia leucophylla*), black sage (*Salvia mellifera*), blue elderberry (*Sambucus nigra*) and poison oak (*Toxicodendron diversilobum*) (Sawyer et al. 2009). Within the BSA associate species include summer mustard. This community is located southwest of The Old Road Bridge at the top of the south bank of Castaic Creek.

Giant Reed Breaks (*Arundo Donax* Semi-Natural Herbaceous Stands)

Giant reed breaks include giant reed (*Arundo donax*; FACWET) or common reed (*Phragmites australis*; FACWET) as the dominant species in the herbaceous layer. Giant reed breaks have continuous cover less than eight meters (26 feet) in height (Sawyer et al., 2009). Species associated with the tamarisk thickets semi-natural alliance include ragweed (*Ambrosia psilostachya*), yerba mansa (*Anemopsis californica*), saltgrass (*Distichlis spicata*), spiny rush (*Juncus acutus*), Cooper's rush (*Juncus cooperi*), perennial pepperweed (*Lepidium latifolium*), hardstem bulrush (*Schoenoplectus acutus*), chairmaker's bulrush (*Schoenoplectus americanus*), southern bulrush (*Schoenoplectus californicus*), *Typha* spp. and cocklebur (Xanthium strumarium) (Sawyer et al., 2009). Within the BSA associate species include tamarisk and sandbar willow. This community is located southwest of The Old Road bridge along the terrace on the north side of Castaic Creek.

Cattail Marshes (*Typha* spp. Herbaceous Alliance)

Cattail marshes include cattails (*Typha angustifolia*; OBL, *Typha domingensis*; OBL, *Typha latifolia*; OBL) as the dominant or co-dominant in the herbaceous layer. Cattail marshes have intermittent to continuous cover less than 1.5 meters (5 feet) in height (Sawyer et al. 2009). Emergent trees such as *Salix* spp. may be present at low cover. Other species associated with the cattail marshes alliance include creeping bentgrass (*Agrostis stolonifera*), Pacific potentilla (*Argentina egedii*), sedge (*Cyperus* spp.), barnyard grass (*Echinochloa crus-galli*), spikerush (*Eleocharis macrostachya*), giant horsetail (*Equisetum telmateia*), rush (*Juncus* spp.), least duckweed (*Lemna minuta*), perennial pepperweed, water parsley (*Oenanthe sarmentosa*), common knotweed (*Persicaria lapathifolia*), dotted smartweed (*Persicaria punctata*), common reed, chairmaker's bulrush, southern bulrush, and cocklebur (Sawyer et al. 2009). Within the BSA associate species include sandbar willow. This community is located southwest of The Old Road bridge in Unnamed Drainage 2.

Natural and Non-Natural Land Covers

Urban/Developed

The urban/developed land cover is not recognized by the Natural Communities List (CDFG, 2010). Urban/developed land refers to areas that have been constructed upon or disturbed so severely that native vegetation is no longer supported (Holland, 1986). Developed land includes areas with permanent or semi-permanent structures, pavement or hardscape, landscaped areas, and areas with a large amount of debris or other materials (Holland, 1986). Urban/developed areas are generally graded and compacted, sometimes covered with gravel road base or built, and have little to no vegetation present. Within the BSA developed land refers to those areas supporting manmade structures or features including paved/compacted roadways, driveways, parking lots, residences, and commercial or industrial buildings. These areas support limited natural ecological processes, native vegetation, or habitat for wildlife species and thus are not considered sensitive by local, state, and/or federal agencies.

Disturbed Habitat

The disturbed habitat land cover is not recognized by the Natural Communities List (CDFG, 2010), but is described by Jones & Stokes (1993) as areas that experience or have experienced high levels of human

disturbance and as a result are generally lacking vegetation. Disturbed habitat may include unpaved roads and graded areas. Vegetation in these areas, if present at all, is usually sparse and dominated by non-native weedy herbaceous species such as Maltese star-thistle (*Centaurea melitensis*), wild oat (*Avena fatua*), black mustard (*Brassica nigra*), spiny sowthistle (*Sonchus asper*), and prickly lettuce (*Lactuca serriola*) (Jones & Stokes 1993). Within the BSA, disturbed land includes dirt roads and bare, open areas with minimal vegetative cover.

Open Water

The open water land cover is not recognized by the Natural Communities List (CDFG, 2010), but is described by Jones and Stokes (1993). Open water consists of standing water with no emergent vegetation in the form of lakes, streams, ponds, or rivers (Jones and Stokes, 1993). Within the BSA, open water is in the Castaic Creek streambed.

4.2 Aquatic Resources

Aquatic Resource Types

Aquatic resources within the BSA were classified as Riverine and Palustrine (see **Table 3**).

Table 3. Aquatics Resources within the Biological Study Area

Aquatic Resource Name	Aquatic Resources Classification		Aquatic Resource Size (acre)	Aquatic Resource Size (linear feet)
	Cowardin	Location (Lat/Long)		
Unnamed Drainage 1 Wetlands	Palustrine, Forested, Broad-leaved Deciduous	34.451 -118.616	0.06	281
Unnamed Drainage 2 Wetlands	Palustrine, Emergent, Persistent	34.451 -118.617	0.03	102
Unnamed Drainage 1 Non-Wetland Waters	None	34.451 -118.615	0.02	86
Castaic Creek Non-Wetland Waters	Riverine, Intermittent Streambed, Cobble-Gravel, Seasonally Flooded	34.451 -118.615	1.13	1,140
		Total	1.24	1,609

Palustrine

A Palustrine system includes all freshwater wetlands (such as marshes, bogs, and swamps) dominated by trees, shrubs, emergent herbaceous plants, floating leaved and submergent plants, and mosses and lichens. It also includes wetlands without such vegetation, but with all of the following characteristics: (1) an area less than 20 acres, (2) a maximum water depth of 6.6 feet, and (3) a salinity of greater than 0.5 percent (Cowardin, Carter, Golet, & LaRoe, 1979). The Palustrine systems in the BSA are further classified as Palustrine, Forested, Broad-leaved, Deciduous Wetland and Palustrine, Emergent, Persistent Wetland.

Palustrine, Forested, Broad-leaved, Deciduous Wetland

This habitat class is dominated by woody vegetation 20 feet or taller. Forested wetlands, e.g. forested

swamps, generally include an overstory of trees, an understory of young trees and shrubs, and a herbaceous layer (Cowardin, Carter, Golet, & LaRoe, 1979). The Palustrine Forested Wetland habitat observed in the BSA is classified as Fremont Cottonwood-Red Willow Forest. This habitat is in Unnamed Drainage 1 (see **Appendix A**, **Figure 7**).

Palustrine, Emergent, Persistent

This habitat class is dominated by perennial plants that normally remain standing at least until the beginning of the next growing season. Emergent wetlands are characterized by erect, rooted, herbaceous hydrophytes, such as cattails, rushes, and sedges (Cowardin, Carter, Golet, & LaRoe, 1979). The Palustrine, Emergent, Persistent Wetland habitat observed in the BSA is classified as Cattail Marshes. This habitat is in Unnamed Drainage 2 (see **Appendix A**, **Figure 7**).

Riverine

A Riverine system includes all wetlands and deepwater habitats within natural and artificial stream, river, or ditch channels with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergents, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 part per thousand or greater. A channel is "an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water" (Cowardin, Carter, Golet, & LaRoe, 1979). The Riverine system in the BSA is further classified as Riverine, Intermittent, Streambed, Cobble-Gravel, Seasonally Flooded.

Riverine Intermittent Streambed Cobble-Gravel, Seasonally Flooded

This habitat class contains flowing water for only part of the year. When water is not flowing, water may be in isolated pools, or surface water may be absent (Cowardin, Carter, Golet, & LaRoe, 1979). The substrate consists of at least 25 percent of cobbles or gravel and is found in the channels of braided systems. Surface water is present for variable periods, with weeks to years between inundation. The Riverine, Intermittent, Streambed, Cobble-Gravel, Intermittently Flooded habitat observed in the BSA is in Castaic Creek (see **Appendix A**, **Figure 7**).

Data Point Results

One transect was evaluated to delineate the OHWM. Four sampling points (one pair) were evaluated at two locations to confirm wetland and upland conditions (see **Appendix A**, **Figure 7**).

Ordinary High Water Mark

Transect #1

Transect #1 was taken in Castaic Creek under The Old Road bridge. The location of the OHWM was determined by the change in vegetation species and scour mark on the creek banks. The vegetation above the OHWM consists of upland native and non-native species. Below the OHWM the surface is bare ground. The creek is approximately 52 feet wide at the OHWM at Transect #1.

Wetland Delineation

Sampling Points #1 and #2

A soil test pit for Sampling Point #1 was excavated at the bottom of Unnamed Drainage 1, downstream of the culvert. The depth of the soil test pit was limited to six inches because of a restrictive layer of rocks and roots. Vegetation is comprised of herbaceous plants meeting the dominance test for hydrophytic vegetation. Soils are coarse sand with no redox concentration. Although redox concentrations were not observed the drainage has continuous flow and is likely cleared of sediment with larger flows, and despite the prolonged saturation of the soils, hydric soil indicators have likely not had time to form. Therefore, soils are considered problematic soils, and the hydric soils indicator has been met. At the time of the survey, surface water was present, the soil was saturated, and the water table was three inches from the soil surface, meeting the hydrology indicator requirement. Therefore, Sampling Point #1 exhibits all three wetland indicators.

A soil test pit was not excavated for Sampling Point #2, because the soil on the levee is compacted. No vegetation is present. No hydric soils or wetland hydrology indicators were observed. Therefore, Sampling Point #2 exhibits none of the wetland indicators.

Sampling Points #3 and #4

A soil test pit for Sampling Point #3 was excavated at Unnamed Drainage 2, approximately 10 feet from the culvert. The depth of the soil test pit was 12 inches. Vegetation is comprised of herbaceous plants that meet the dominance test for hydrophytic vegetation. Soils are sandy loam with no redox concentrations. However, the soil sample emitted a strong hydrogen sulfide odor. At the time of the survey, surface water was present, the soil was saturated, and the water table was at two inches from the soil surface, meeting the hydrology indicator requirement. Therefore, sampling Point #3 exhibits all three wetland indicators.

A soil test pit for Sampling Point #4 was excavated in a undeveloped field adjacent to the concrete levee on the north side of Unnamed Drainage 2. The depth of the soil was zero inches due to compacted soil. No vegetation was present. No hydric soils or wetland hydrology indicators were observed. Therefore, Sampling Point #4 exhibits none of the wetland indicators.

5.0 REGULATORY AGENCY JURISDICTION

5.1 United States Army Corps of Engineers

The BSA was evaluated for wetlands and non-wetland waters under jurisdiction of the USACE by delineating the OHWM of Castaic Creek and assessing the presence of hydrophytic plants, hydric soils, and wetlands hydrology. Within the BSA approximately 0.09 acre of jurisdictional wetlands were delineated and approximately 1.15 acres of non-wetland waters of the U.S. were delineated (see **Appendix A**, **Figure 8** and **Table 4**).

Table 4. Jurisdictional Wetlands and Waters Delineated within the BSA

Regulatory Agency	Jurisdictional Wetlands within BSA (acres)	Non-wetland Jurisdictional Waters within BSA (acres)	Total Jurisdiction within BSA (acres)
United States Army Corps of Engineers	0.09		1.24
Regional Water Quality Control Board	0.09	1.15	1.24
California Department of Fish and Wildlife	1.79	5.19	7.58

5.2 Regional Water Quality Control Board

The Castaic Creek had surface water at the time of the survey and is expected to fall under RWQCB jurisdiction. The BSA was evaluated for waters under jurisdiction of the RWQCB by delineating the OHWM of Castaic Creek. Jurisdictional wetlands were identified by determining the presence of hydrophytic vegetation, hydric soils, and wetland hydrology. Within the BSA approximately 0.09 acre of wetlands were delineated and approximately 1.15 acres of non-wetland waters of the state were delineated (see **Appendix A**, **Figure 9** and **Table 4**).

5.3 California Department of Fish and Wildlife

Castaic Creek has a defined bed and bank and supported vegetation at the time of the survey. Therefore, it is expected to fall under CDFW jurisdiction. The BSA was evaluated for waters under jurisdiction of the CDFW by delineating areas from the top of bank to the top of bank within the creek. There is no riparian vegetation beyond the top of the banks that would fall within CDFW jurisdiction. Approximately 7.58 acres under CDFW jurisdiction were delineated in the Castaic Creek (see **Appendix A**, **Figure 10** and **Table 4**).

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Appendix A. Aquatic Resource Delineation Maps



FIGURE 1. REGIONAL LOCATION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

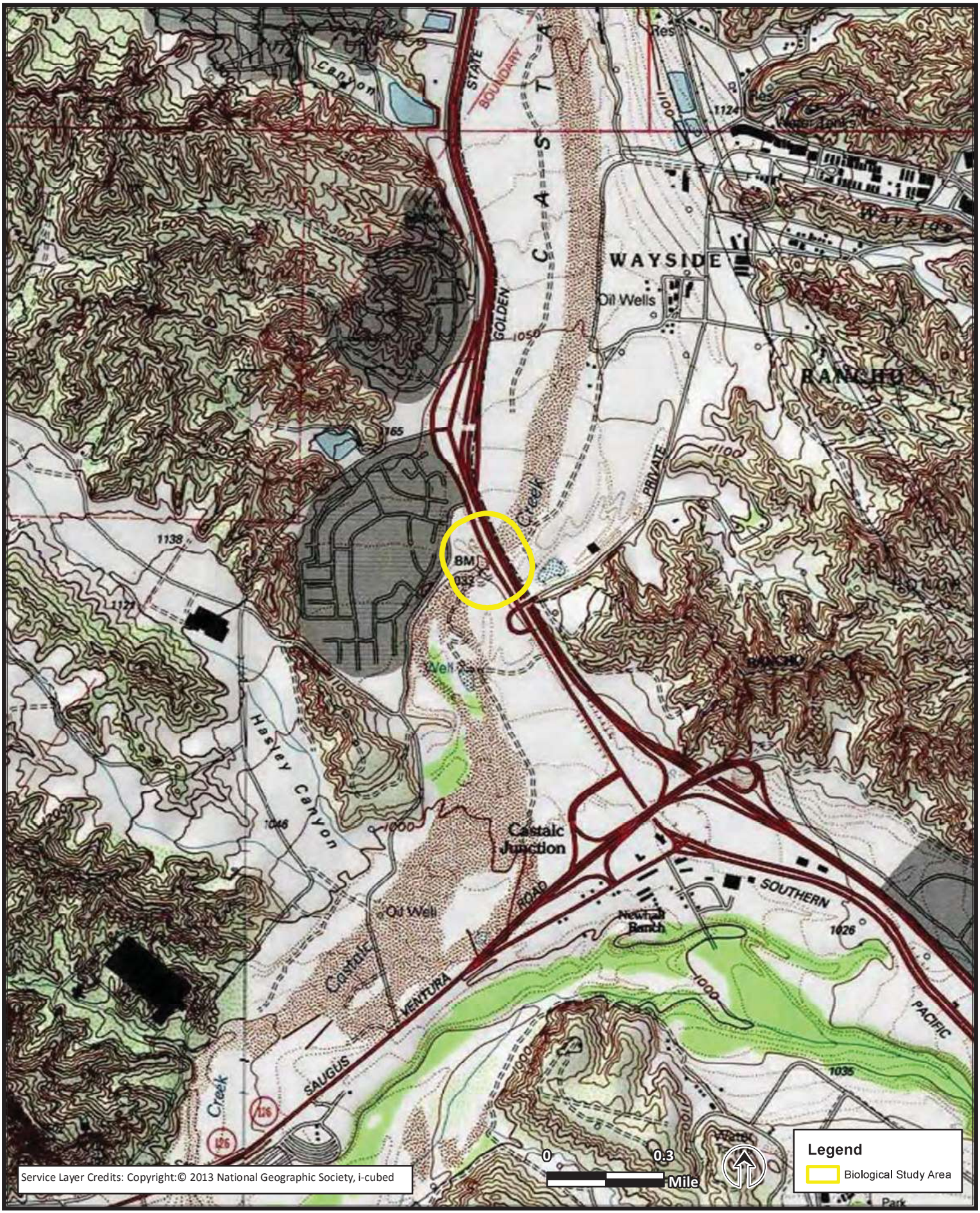


FIGURE 2. PROJECT LOCATION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

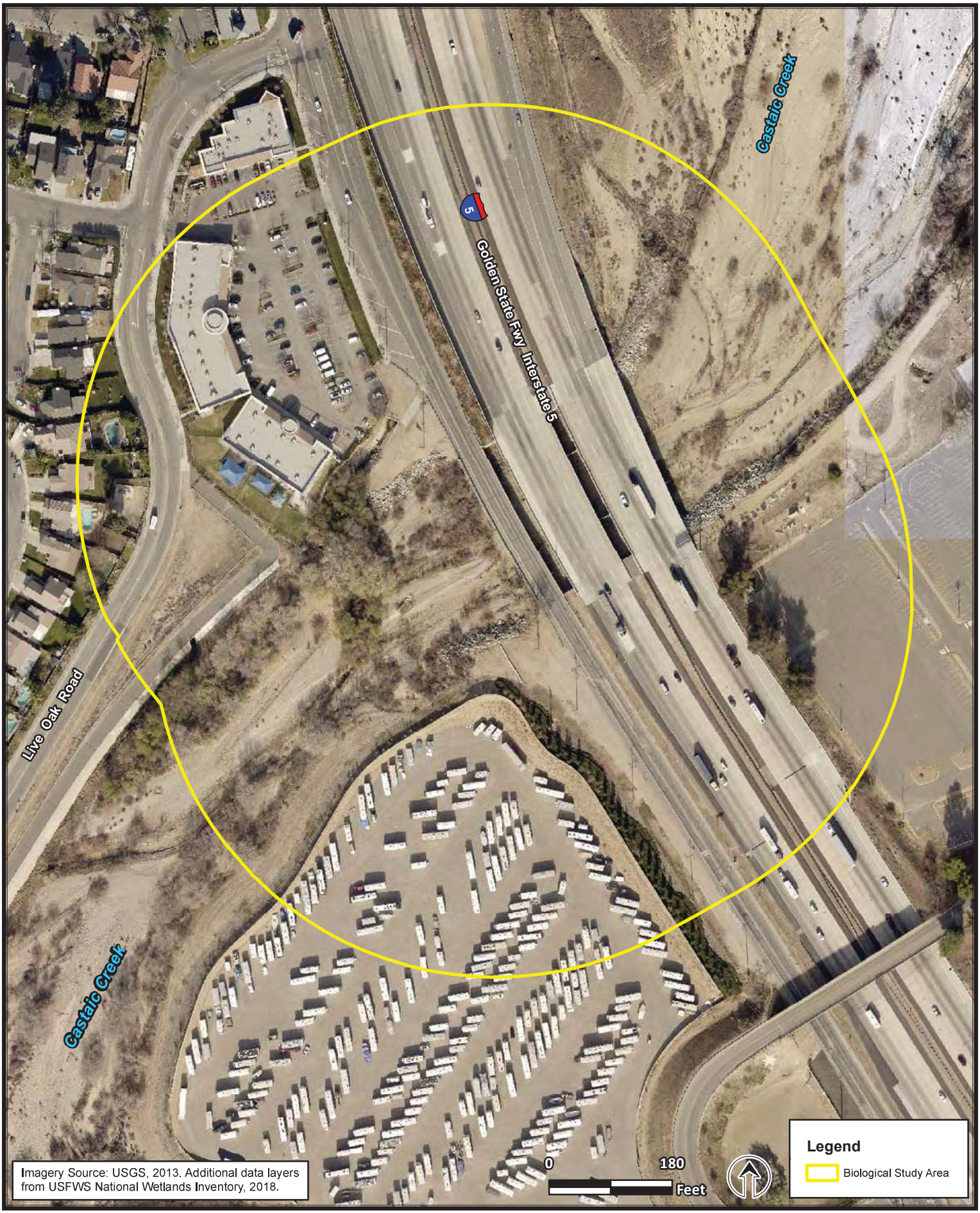


FIGURE 3. BIOLOGICAL STUDY AREA
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

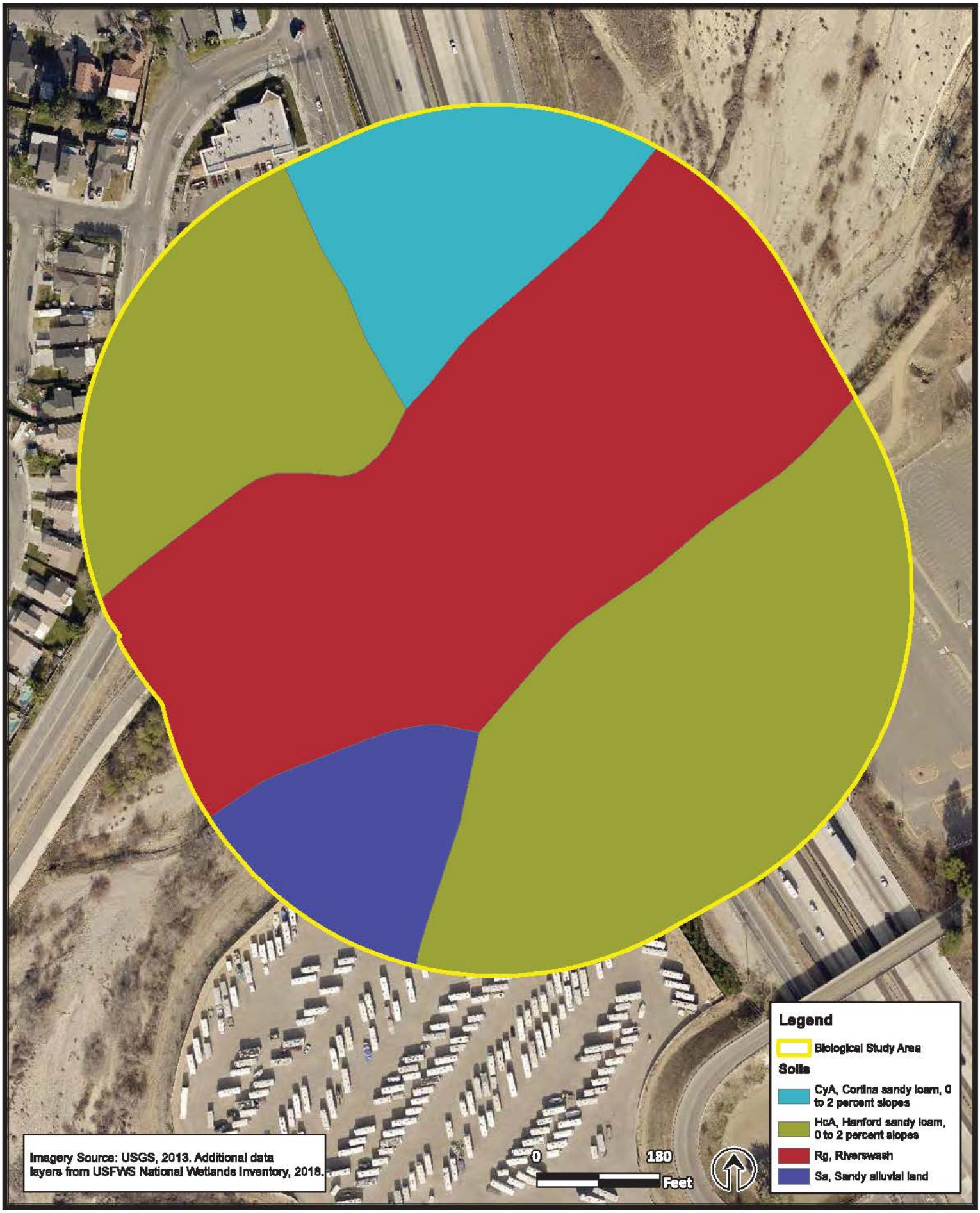


FIGURE 4. SOILS MAP
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

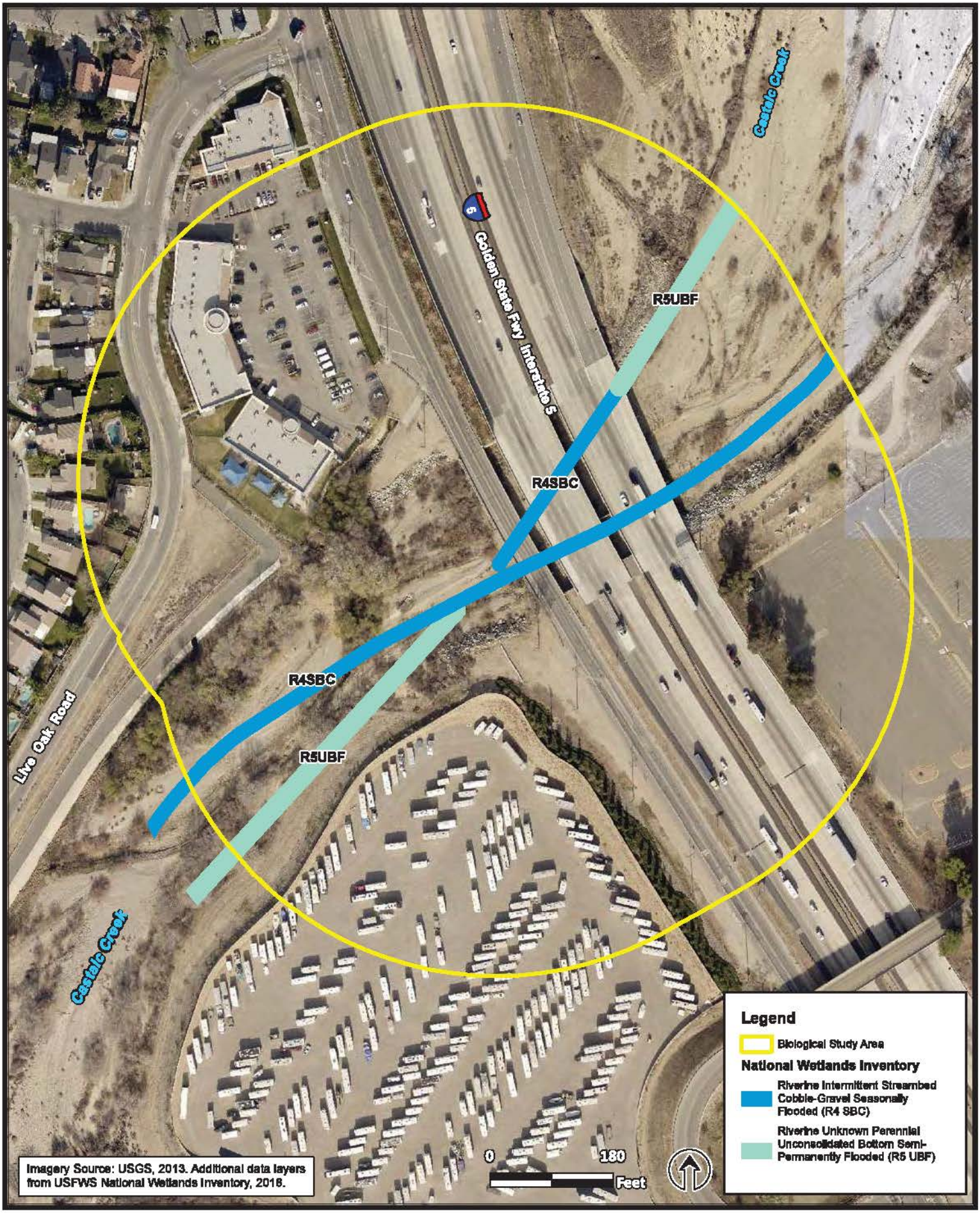


FIGURE 5. NATIONAL WETLAND INVENTORY
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

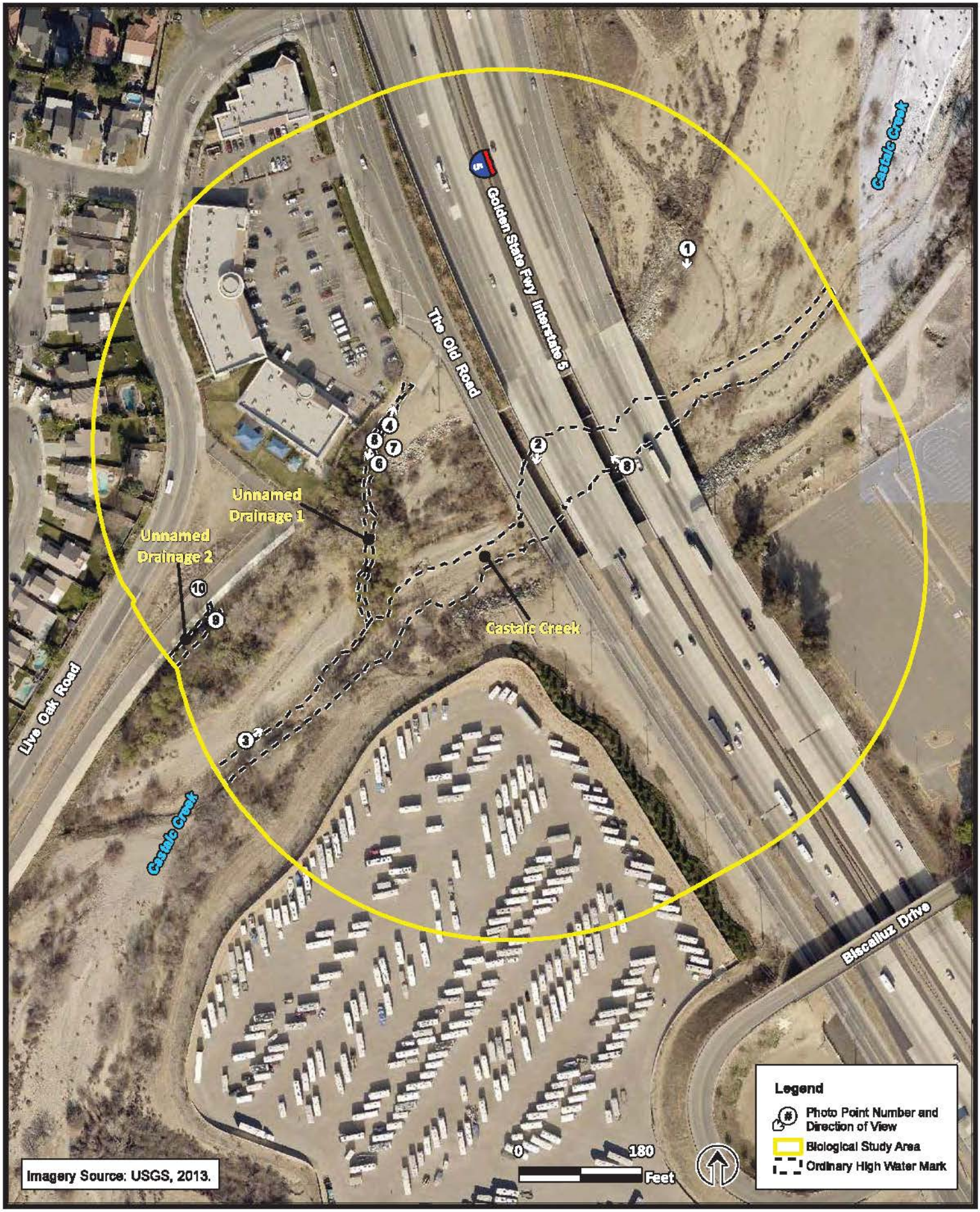


FIGURE 6. PHOTO POINTS
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

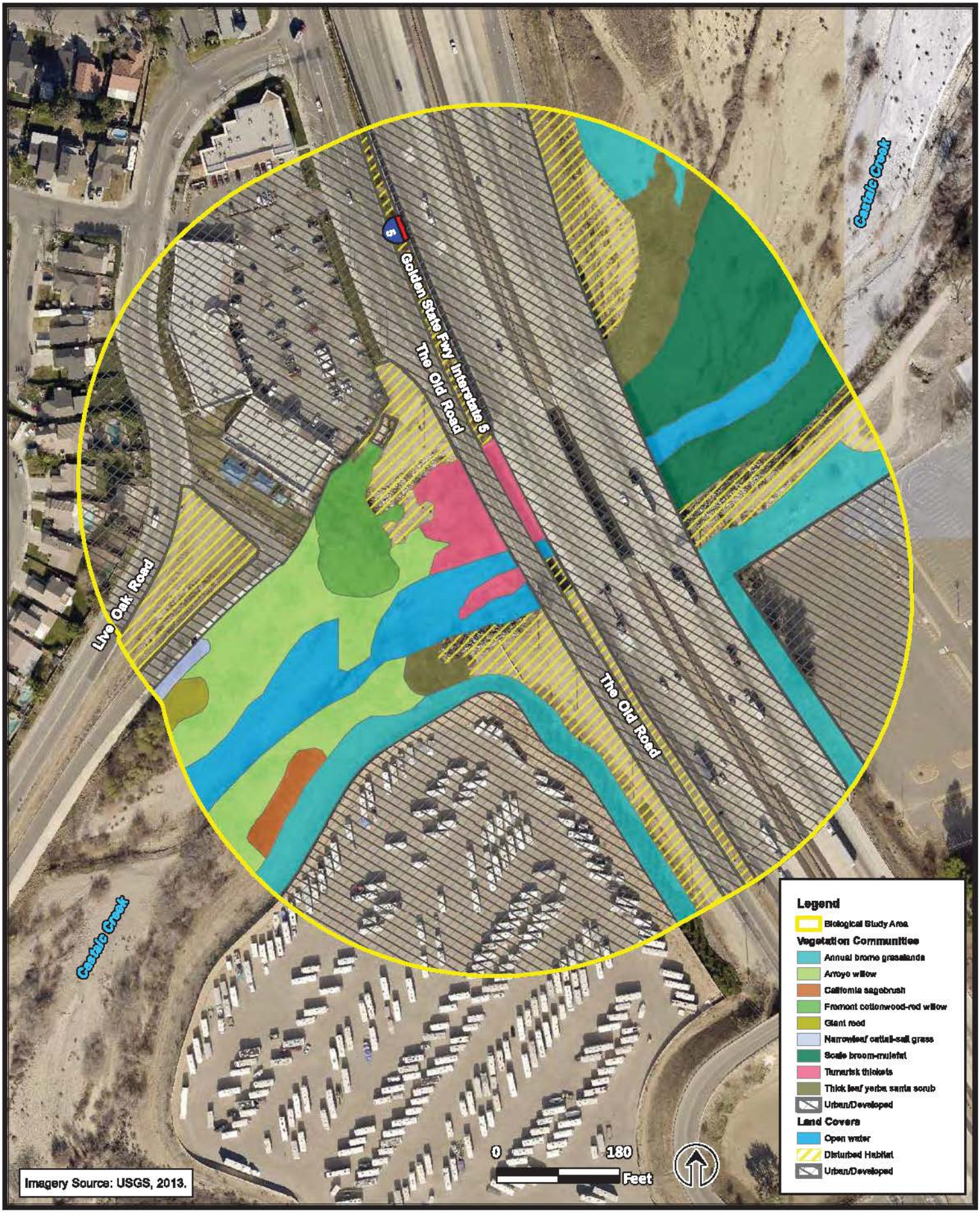


FIGURE 7. VEGETATION MAP
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

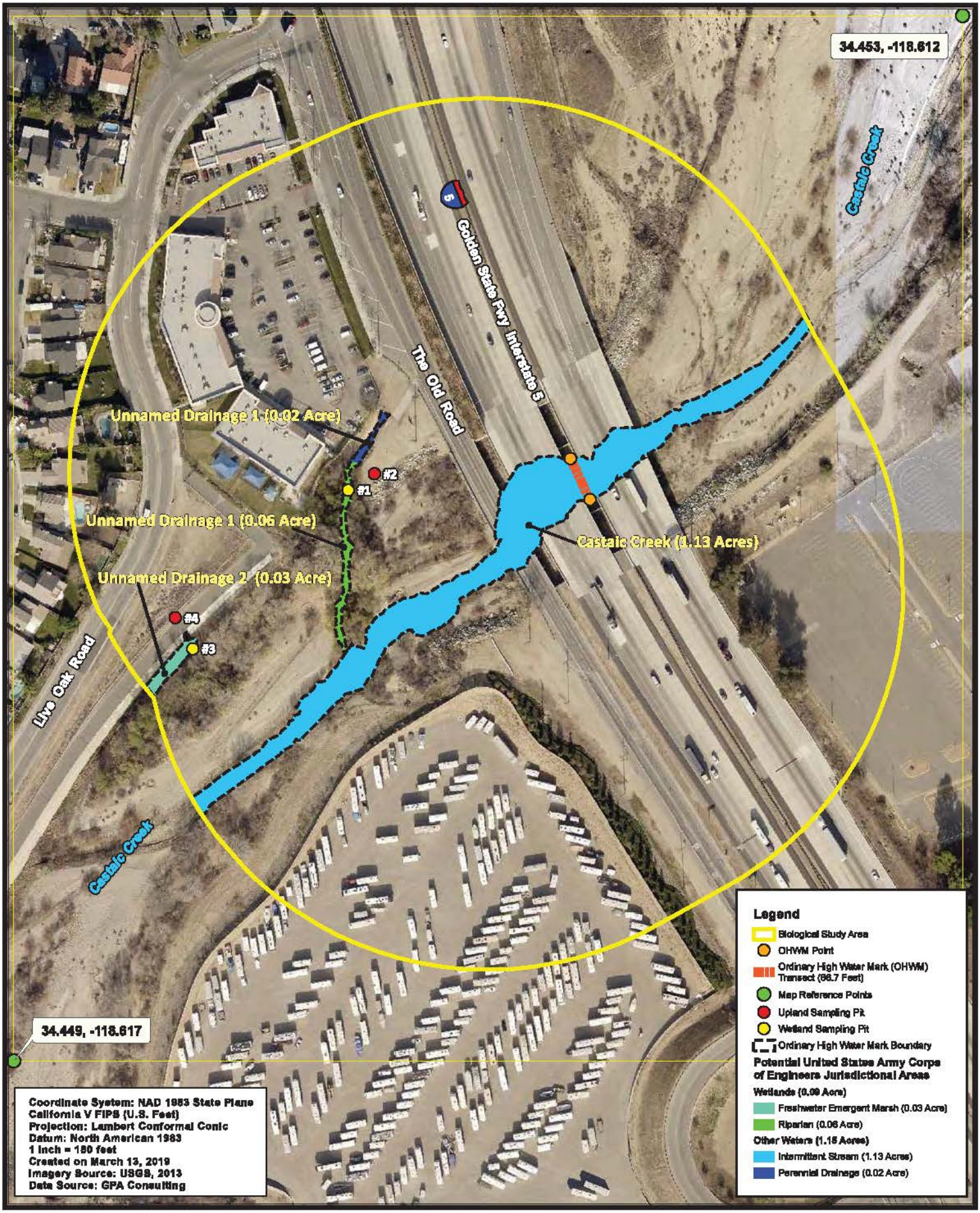


FIGURE 8. POTENTIAL UNITED STATES ARMY CORPS OF ENGINEERS JURISDICTION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

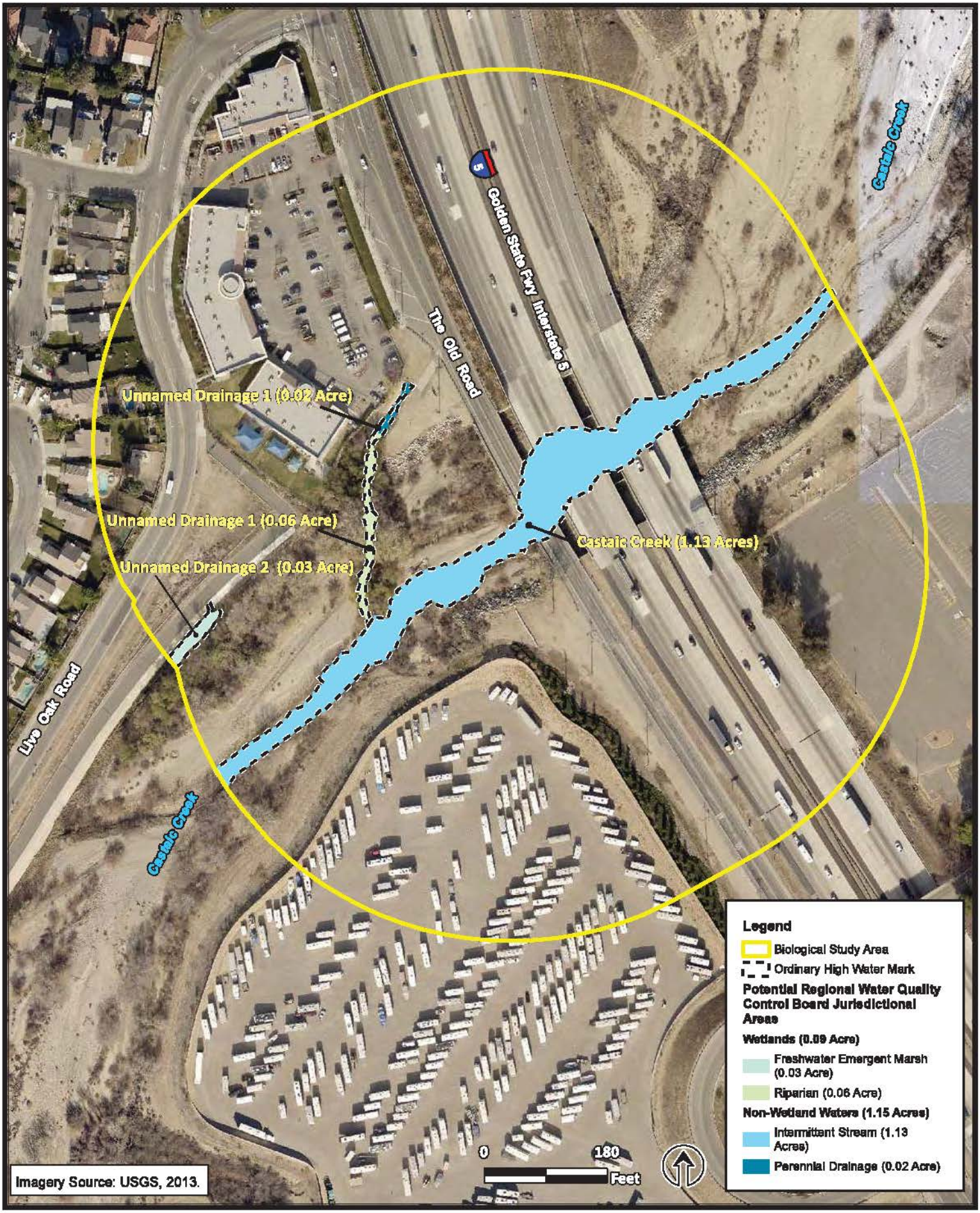


FIGURE 9. POTENTIAL REGIONAL WATER QUALITY CONTROL BOARD JURISDICTION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)



FIGURE 10. POTENTIAL CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE JURISDICTION
The Old Road Over Castaic Creek (Bridge No. 53C-1403)

Appendix B. Soil Report

United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Antelope Valley Area, California



March 15, 2019

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

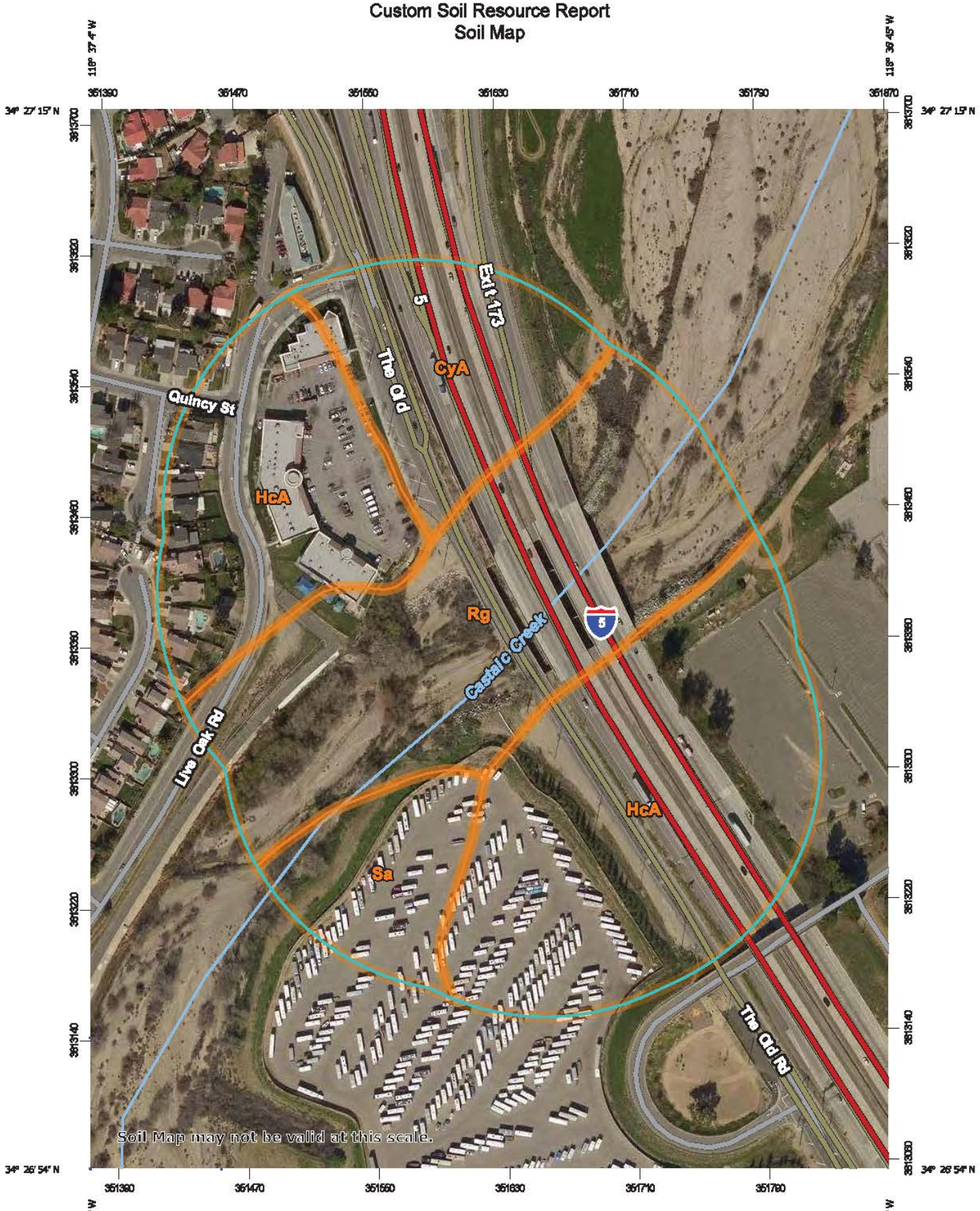
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:3,160 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 45 90 180 270

Feet: 0 150 300 600 900

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 11N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Antelope Valley Area, California
Survey Area Data: Version 11, Sep 17, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 9, 2015—Feb 13, 2015

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CyA	Cortina sandy loam, 0 to 2 percent slopes	4.4	12.5%
HcA	Hanford sandy loam, 0 to 2 percent slopes	16.8	47.4%
Rg	Riverwash	11.4	32.1%
Sa	Sandy alluvial land	2.8	8.0%
Totals for Area of Interest		**35.5**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or

landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Antelope Valley Area, California

CyA—Cortina sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: hcdf
Elevation: 30 to 2,400 feet
Mean annual precipitation: 8 to 40 inches
Mean annual air temperature: 61 to 64 degrees F
Frost-free period: 275 to 300 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Cortina and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Cortina

Setting

Landform: Alluvial fans
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 12 inches: sandy loam
H2 - 12 to 28 inches: very gravelly sandy loam
H3 - 28 to 60 inches: very cobbly sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Available water storage in profile: Low (about 3.7 inches)

Interpretive groups

Land capability classification (irrigated): 4s
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: SANDY 9-20" (R019XD065CA)
Hydric soil rating: No

Minor Components

Metz

Percent of map unit: 10 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 4 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 1 percent
Landform: Drainageways
Hydric soil rating: Yes

HcA—Hanford sandy loam, 0 to 2 percent slopes

Map Unit Setting
National map unit symbol: hcf4
Elevation: 2,600 to 4,200 feet
Mean annual precipitation: 9 to 12 inches
Mean annual air temperature: 63 degrees F
Frost-free period: 200 to 250 days
Farmland classification: Prime farmland if irrigated

Map Unit Composition
Hanford and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Hanford

Setting
Landform: Alluvial fans
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from granite

Typical profile
H1 - 0 to 8 inches: sandy loam
H2 - 8 to 70 inches: sandy loam, fine sandy loam
H2 - 8 to 70 inches:

Properties and qualities
Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very high (about 14.5 inches)

Interpretive groups
Land capability classification (irrigated): 2s
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: LOAMY 9-20" (R019XD064CA)
Hydric soil rating: No

Minor Components

Greenfield
Percent of map unit: 10 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 4 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 1 percent
Landform: Drainageways
Hydric soil rating: Yes

Rg—Riverwash

Map Unit Composition
Riverwash: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Riverwash

Setting
Landform: Drainageways
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile
H1 - 0 to 6 inches: sand
H2 - 6 to 60 inches: stratified coarse sand to sandy loam

Properties and qualities
Slope: 0 to 2 percent
Natural drainage class: Excessively drained
Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: Frequent
Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydrologic Soil Group: A
Hydric soil rating: Yes

Minor Components

Sandy alluvial land
Percent of map unit: 10 percent
Hydric soil rating: No

Unnamed
Percent of map unit: 5 percent
Hydric soil rating: No

Sa—Sandy alluvial land

Map Unit Setting
National map unit symbol: hch5
Mean annual precipitation: 14 inches
Mean annual air temperature: 61 degrees F
Farmland classification: Not prime farmland

Map Unit Composition
Sandy alluvial land: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sandy Alluvial Land

Setting
Landform: Flood plains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile
H1 - 0 to 10 inches: sand
H2 - 10 to 30 inches: stratified sand to loam
H3 - 30 to 60 inches: stratified gravelly sand to gravelly loam

Properties and qualities
Slope: 0 to 2 percent
Natural drainage class: Excessively drained

Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)
Depth to water table: About 10 inches
Frequency of flooding: Frequent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Moderate (about 6.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7w
Hydrologic Soil Group: B
Ecological site: SANDY 9-20" (R020XE025CA)
Hydric soil rating: Yes

Minor Components

Riverwash

Percent of map unit: 10 percent
Landform: Drainageways
Hydric soil rating: Yes

Unnamed

Percent of map unit: 5 percent
Hydric soil rating: No

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Appendix C. Photographs of Biological Study Area

Photo Point Number	Photo Point Direction	Photo Point Location in Decimal Degrees (Latitude, Longitude)
1	S	-118.614332, 34.452365
2	S	-118.615051, 34.451571
3	NE	-118.616339, 34.450462
4	N	-118.615776, 34.451633
5	S	-118.615816, 34.451577
6	no direction	-118.61586, 34.451503
7	no direction	-118.615737, 34.451572
8	NW	-118.614621, 34.451488
9	No direction	-118.616611, 34.45083
10	E	-118.616696, 34.450987



Photo 1. Castaic Creek, upstream of Interstate 5 (I-5) and The Old Road bridge (bridge); view facing south toward I-5



Photo 2. Castaic Creek, under I-5; view facing south toward bridge



Photo 3. Castaic Creek, downstream of bridge; view facing northeast



Photo 4. Culvert and Unnamed Drainage 1 west of Castaic Creek, in southwest portion of Biological Study Area (BSA); view facing north



Photo 5. Unnamed Drainage 1 downstream of culvert in southwest portion of BSA; view facing south



Photo 6. Sampling Point #1 on east bank of Unnamed Drainage 1 downstream of culvert in southwest portion of BSA



Photo 7. Location of Sampling Point #2 on earthen levee on east bank of Unnamed Drainage 1



Photo 8. Area of OHWM Transect #1, Castaic creek; view facing northwest from eastern bank of Castaic Creek, under I-5 and The Old Road bridge



Photo 9. Sampling Point #3 on east bank of Unnamed Drainage 2



Photo 10 Location of Sampling Point #4 above west bank of Unnamed Drainage 2; view taken from vacant field adjacent to levee, facing east



Photo 1. Castaic Creek, upstream of Interstate 5 (I-5) and The Old Road bridge (bridge); view facing south toward I-5



Photo 2. Castaic Creek, under I-5; view facing south toward bridge



Photo 3. Castaic Creek, downstream of bridge; view facing northeast



Photo 4. Culvert and Unnamed Drainage 1 west of Castaic Creek, in southwest portion of Biological Study Area (BSA); view facing north



Photo 5. Unnamed Drainage 1 downstream of culvert in southwest portion of BSA; view facing south



Photo 6. Sampling Point #1 on east bank of Unnamed Drainage 1 downstream of culvert in southwest portion of BSA



Photo 7. Location of Sampling Point #2 on earthen levee on east bank of Unnamed Drainage 1



Photo 8. Area of OHWM Transect #1, Castaic creek; view facing northwest from eastern bank of Castaic Creek, under I-5 and The Old Road bridge



Photo 9. Sampling Point #3 on east bank of Unnamed Drainage 2



Photo 10 Location of Sampling Point #4 above west bank of Unnamed Drainage 2; view taken from vacant field adjacent to levee, facing east

Appendix D. OHWM Delineation Datasheets

Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Project:
Project Number:
Stream:
Investigator(s): K Warner / S Mayta

Date: 2/26/19 **Time:**
Town: Castaic Junction **State:**
Photo begin file#: **Photo end file#:**

Y ☐ / N ☐ Do normal circumstances exist on the site?

Y ☐ / N ☐ Is the site significantly disturbed?

Location Details:

Projection: STATEPLANE V **Datum:** NAD83
Coordinates: -118.615246 34.451216

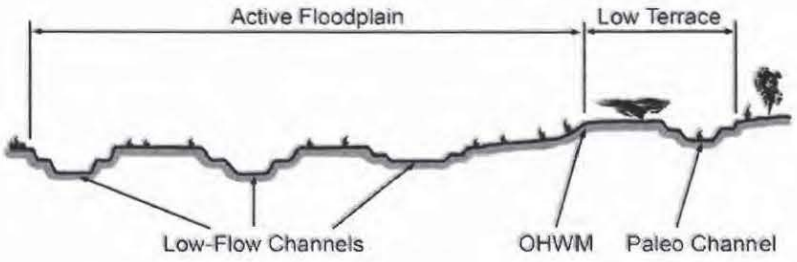
Potential anthropogenic influences on the channel system:
Possibly water release from Castaic dam

Brief site description:
Sediment deposition, cobble deposition, constraints on creek lateral movement due to piers + footings from bridges, erosional gullies on lower terraces South of bridges there are primary & secondary terraces.

Checklist of resources (if available):

- ☐ Aerial photography
  Dates:
- ☐ Topographic maps
- ☐ Geologic maps
- ☐ Vegetation maps
- ☐ Soils maps
- ☐ Rainfall/precipitation maps
- ☐ Existing delineation(s) for site
- ☐ Global positioning system (GPS)
- ☐ Other studies
- ☐ Stream gage data
  Gage number:
  Period of record:
- ☐ History of recent effective discharges
- ☐ Results of flood frequency analysis
- ☐ Most recent shift-adjusted rating
- ☐ Gage heights for 2-, 5-, 10-, and 25-year events and the most recent event exceeding a 5-year event

Hydrogeomorphic Floodplain Units



Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:

1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and vegetation present at the site.
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.
   a) Record the floodplain unit and GPS position.
   b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the floodplain unit.
   c) Identify any indicators present at the location.
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.
5. Identify the OHWM and record the indicators. Record the OHWM position via:
   - ☐ Mapping on aerial photograph
   - ☐ Digitized on computer
   - ☐ GPS
   - ☐ Other:

Project ID: **Cross section ID:** **Date:** 2/26/19 **Time:** 2:10pm

Cross section drawing:



OHWM

GPS point: 34°N 27' 52.781" 118° 37' 01.002"

Indicators:

- ☐ Change in average sediment texture
- ☐ Change in vegetation species
- ☒ Change in vegetation cover
- ☐ Break in bank slope
- ☐ Other: _____
- ☐ Other: _____

Comments:
No vegetation on bank slope or in creek. Mulefat starts growing near top of slope.

Floodplain unit:

☐ Low-Flow Channel ☒ Active Floodplain ☐ Low Terrace

GPS point: use OHWM point

Characteristics of the floodplain unit:

Average sediment texture: Fine silt

Total veg cover: 0 % Tree: ____% Shrub: ____% Herb: ____%

Community successional stage:

- ☒ NA
- ☐ Early (herbaceous & seedlings)
- ☐ Mid (herbaceous, shrubs, saplings)
- ☐ Late (herbaceous, shrubs, mature trees)

Indicators:

- ☐ Mudcracks
- ☒ Ripples
- ☒ Drift and/or debris
- ☒ Presence of bed and bank
- ☐ Benches
- ☐ Soil development
- ☐ Surface relief
- ☐ Other: _____
- ☐ Other: _____
- ☐ Other: _____

Comments:
low grade steepness → creek
side channel splits from main channel under SB I-5 lanes and rejoins south of Old Rd.

Appendix E. Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Old Road over Castaic City/County: Castaic Junction, Los Angeles Sampling Date: 02.26.2019

Applicant/Owner: County of Los Angeles Department of Public Works State: CA Sampling Point: # 1

Investigator(s): K. Warner, S. Mayta Section, Township, Range: there is no Section, Township, Range

Landform (hillslope, terrace, etc.): Slope of creek channel Local relief (concave, convex, none): Concave Slope (%): 1

Subregion (LRR): Mediterranean California (LRR C) Lat: 34.451503 Long: -118.61586 Datum: WGS 1984

Soil Map Unit Name: Rg, Riverwash NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present?	Yes _____	No ✓	
Wetland Hydrology Present?	Yes ✓	No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: 20' x 10')	Absolute % Cover	Dominant Species?	Indicator Status
1. Salix laevigata	60	Y	FACW
2.			
3.			
4.			
	60 = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. N/A			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. N/A			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	_____ = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. N/A			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 100 % Cover of Biotic Crust 0

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

Perennial water source (culvert), moss, treefrogs (heard), approximately 15' concrete-lined apron downstream of culvert under Old Road. Mature Salix laevigata and Salix exigua on eastern perimeter. Dispersed Washingtonia robusta seedlings.

SOIL

Sampling Point: # 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-6	10YR 2/1	100					SAND	could not make soil ball

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: rocks and roots

Depth (inches): 6 inches

Hydric Soil Present? Yes _____ No ✓

Remarks:

Soil contained rocks, no hydrogen sulfide smell, fibrous roots and organic matter. This area has ponded water and persistent run off from urban areas and steep watershed. A deep sample was not able to be taken because of the roots and rocks in the drainage.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ✓ No _____ Depth (inches): 6

Water Table Present? Yes ✓ No _____ Depth (inches): 2

Saturation Present? (includes capillary fringe) Yes ✓ No _____ Depth (inches): 0

Wetland Hydrology Present? Yes ✓ No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Perennial flow from culvert under The Old Road. The first approx. 15' of drainage is a concrete channel -approx width of channel is 5 feet.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Old Road over Castaic City/County: Castaic Junction, Los Angeles Sampling Date: 02.26.2019

Applicant/Owner: County of Los Angeles Department of Public Works State: CA Sampling Point: # 2

Investigator(s): K. Warner, S. Mayta Section, Township, Range: there is no Section, Township, Range

Landform (hillslope, terrace, etc.): top of levee Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): Mediterranean California (LRR C) Lat: 34.451568 Long: -118.615733 Datum: WGS 1984

Soil Map Unit Name: Rg, Riverwash NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✓	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present?	Yes _____	No ✓	
Wetland Hydrology Present?	Yes _____	No ✓	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. None			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. None			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
	_____ = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. None			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum _____ % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

Nearest upland location is in dirt parking area. No vegetation found here and there is a restrictive layer of compacted soil.

SOIL

Sampling Point: # 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No ✓

Remarks:

Could not dig a soil pit because of compacted soil on dirt parking area.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Old Road over Castaic City/County: Castaic Junction, Los Angeles Sampling Date: 04.24.2019

Applicant/Owner: County of Los Angeles Department of Public Works State: CA Sampling Point: # 3

Investigator(s): K. Warner, S. Mayta Section, Township, Range: there is no Section, Township, Range

Landform (hillslope, terrace, etc.): Lower terrace Local relief (concave, convex, none): Concave Slope (%): 1

Subregion (LRR): Mediterranean California (LRR C) Lat: 34.45086 Long: -118.616611 Datum: WGS 1984

Soil Map Unit Name: Rg, Riverwash NWI classification: Riverine

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓ No _____	**Is the Sampled Area within a Wetland?** Yes ✓ No _____
Hydric Soil Present?	Yes ✓ No _____	
Wetland Hydrology Present?	Yes ✓ No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: N/A)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: N/A)			
1.			
2.			
3.			
4.			
5.			
	= Total Cover		
Herb Stratum (Plot size: 5' X 5')			
1. Typha sp.	60	Y	OBL
2. Salix exigua	3	N	FACW
3.			
4.			
5.			
6.			
7.			
8.			
	63 = Total Cover		
Woody Vine Stratum (Plot size: N/A)			
1.			
2.			
	= Total Cover		

% Bare Ground in Herb Stratum 27 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

Adjacent Castaic Creek terrace includes mature stand of cottonwood (and arroyo willow with an understory of sandbar willow, tamarisk, and giant reed.

SOIL

Sampling Point: # 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	Matrix %	Redox Features Color (moist)	Redox Features %	Type[1]	Loc[2]	Texture	Remarks
0-12	10 YR 3/2	100					Sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ✓ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes ✓ No ___

Remarks:

soil has thick layer of organic matter

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ✓ Surface Water (A1)
- ✓ High Water Table (A2)
- ✓ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes ✓ No ___ Depth (inches): 3

Water Table Present? Yes ✓ No ___ Depth (inches): 4

Saturation Present? (includes capillary fringe) Yes ✓ No ___ Depth (inches): 0

Wetland Hydrology Present? Yes ✓ No ___

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Perennial water source from urban areas surrounding drainage. Water flowing from 10' wide box culvert under from concrete bank. Drainage begins at culvert heading south in an approximately 8' wide swath with standing water. Widest point of drainage is approx. 15'. Bank on east side slightly rises approx. 2'.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: Old Road over Castaic City/County: Castaic Junction, Los Angeles Sampling Date: 04.24.2019

Applicant/Owner: County of Los Angeles Department of Public Works State: CA Sampling Point: # 2

Investigator(s): K. Warner, S. Mayta Section, Township, Range: there is no Section, Township, Range

Landform (hillslope, terrace, etc.): top of bank Local relief (concave, convex, none): None Slope (%): 0

Subregion (LRR): Mediterranean California (LRR C) Lat: 34.450985 Long: -118.616696 Datum: WGS 1984

Soil Map Unit Name: Rg, Riverwash NWI classification: Upland

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____	No ✓	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present?	Yes _____	No ✓	
Wetland Hydrology Present?	Yes _____	No ✓	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1. None			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. None			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: 5' X 5')			
1. Bromus madritensis		30	
2. Heterotheca grandiflora		1	
3.			
4.			
5.			
6.			
7.			
8.			
	31 = Total Cover		
Woody Vine Stratum (Plot size: _____)			
1. None			
2.			
	_____ = Total Cover		

% Bare Ground in Herb Stratum 69 % Cover of Biotic Crust _____

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 0 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

weedy lot west of cattail wetland

SOIL

Sampling Point: # 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix Color (moist)	%	Redox Features Color (moist)	%	Type[1]	Loc[2]	Texture	Remarks
							sand	

[1]Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. [2]Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5) (**LRR C**)
- ___ 1 cm Muck (A9) (**LRR D**)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Loamy Mucky Mineral (F1)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Vernal Pools (F9)

Indicators for Problematic Hydric Soils[3]:

- ___ 1 cm Muck (A9) (**LRR C**)
- ___ 2 cm Muck (A10) (**LRR B**)
- ___ Reduced Vertic (F18)
- ___ Red Parent Material (TF2)
- ___ Other (Explain in Remarks)

[3]Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: compacted soil with rock and gr

Depth (inches): zero

Hydric Soil Present? Yes _____ No ✓

Remarks:

soil hard and compacted- very sandy/gravelley, could not dig pit

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1) (**Nonriverine**)
- ___ Sediment Deposits (B2) (**Nonriverine**)
- ___ Drift Deposits (B3) (**Nonriverine**)
- ___ Surface Soil Cracks (B6)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Water-Stained Leaves (B9)
- ___ Salt Crust (B11)
- ___ Biotic Crust (B12)
- ___ Aquatic Invertebrates (B13)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres along Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

- ___ Water Marks (B1) (**Riverine**)
- ___ Sediment Deposits (B2) (**Riverine**)
- ___ Drift Deposits (B3) (**Riverine**)
- ___ Drainage Patterns (B10)
- ___ Dry-Season Water Table (C2)
- ___ Crayfish Burrows (C8)
- ___ Saturation Visible on Aerial Imagery (C9)
- ___ Shallow Aquitard (D3)
- ___ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No ✓ Depth (inches): _____

Water Table Present? Yes _____ No ✓ Depth (inches): _____

Saturation Present? (includes capillary fringe) Yes _____ No ✓ Depth (inches): _____

Wetland Hydrology Present? Yes _____ No ✓

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Appendix F. Plants Observed in the BSA

APPENDIX B
Species Compendium

PLANTS

EUDICOTS

VASCULAR SPECIES

ADOXACEAE—MUSKROOT FAMILY

Sambucus nigra ssp. *caerulea*—blue elderberry

AIZOACEAE—FIG-MARIGOLD FAMILY

Trianthema portulacastrum—desert horsepurslane

ASTERACEAE—SUNFLOWER FAMILY

Ambrosia acanthicarpa—flatspine bur ragweed
Artemisia californica—California sagebrush
Artemisia douglasiana—Douglas' sagewort
Baccharis pilularis—coyote brush
Baccharis salicifolia—mulefat
Carduus pycnocephalus—Italian plumeless thistle*
Centaurea melitensis—Maltese star-thistle*
Corethrogyne filaginifolia—sand-aster
Erigeron bonariensis—asthmaweed*
Heterotheca grandiflora—telegraphweed
Heterotheca sessiliflora—sessileflower false goldenaster
Lactuca serriola—prickly lettuce*
Lepidospartum squamatum—scale broom
Logfia gallica—narrowleaf cottonrose*
Pseudognaphalium californicum—ladies' tobacco
Pseudognaphalium leucocephalum—white rabbit-tobacco
Senecio vulgaris—old-man-in-the-Spring*
Sonchus asper—spiny sowthistle*
Sonchus oleraceus—common sowthistle*
Xanthium strumarium—cocklebur

BORAGINACEAE—BORAGE FAMILY

Amsinckia intermedia—common fiddleneck
Cryptantha micrantha—redroot cryptantha
Emmenanthe penduliflora—whisperingbells
Eriodictyon crassifolium var. *nigrescens*—thickleaf yerba santa

Eucrypta chrysanthemifolia var. *chrysanthemifolia*—spotted hideseed
Heliotropium curassavicum—salt heliotrope
Phacelia cicutaria var. *hispida*—caterpillar phacelia

BRASSICACEAE—MUSTARD FAMILY
Brassica nigra—black mustard*
Hirschfeldia incana—shortpod mustard*
Sisymbrium orientale—Indian hedgemustard*

CHENOPODIACEAE—GOOSEFOOT FAMILY
Chenopodium album—lambsquarters*
Chenopodium murale—nettleleaf goosefoot*
Salsola tragus—prickly Russian thistle*

CRASSULACEAE—STONECROP FAMILY
Crassula connata—sand pygmyweed

EUPHORBIACEAE—SPURGE FAMILY
Euphorbia maculata—spotted sandmat*
Ricinus communis—castorbean*

FABACEAE—LEGUME FAMILY
Acmispon glaber—deer weed
Astragalus trichopodus—Santa Barbara milkvetch
Melilotus indicus—annual yellow sweetclover*

GERANIACEAE—GERANIUM FAMILY
Erodium cicutarium—redstem stork's bill*

JUGLANDACEAE—WALNUT FAMILY
Juglans californica—Southern California black walnut

MYRSINACEAE—MYRSINE FAMILY
Lysimachia arvensis—scarlet pimpernel*

MYRTACEAE—MYRTLE FAMILY
Eucalyptus camaldulensis—river redgum*

ONAGRACEAE—EVENING PRIMROSE FAMILY
Camissonia strigulosa—sandysoil suncup
Camissoniopsis bistorta—southern suncup

PHRYMACEAE—LOPSEED FAMILY

Diplacus brevipes—widethroat yellow monkeyflower
Erythranthe guttata—common monkey flower

PLANTAGINACEAE—PLANTAIN FAMILY

Antirrhinum coulterianum—Coulter's snapdragon

PLATANACEAE—PLANE TREE, SYCAMORE FAMILY

Platanus racemosa—California sycamore

POLYGONACEAE—BUCKWHEAT FAMILY

Eriogonum fasciculatum—California buckwheat
Rumex crispus—curly dock*

SALICACEAE—WILLOW FAMILY

Populus fremontii—Fremont cottonwood
Salix exigua—sandbar willow
Salix gooddingii—black willow
Salix lasiolepis—arroyo willow

SOLANACEAE—NIGHTSHADE FAMILY

Datura wrightii—sacred thorn-apple
Nicotiana glauca—tree tobacco*

TAMARICACEAE—TAMARISK FAMILY

Tamarix ramosissima—tamarisk*

URTICACEAE—NETTLE FAMILY

Urtica urens—dwarf nettle*

VERBENACEAE—VERVAIN FAMILY

Verbena lasiostachys—western vervain

MONOCOTS

VASCULAR SPECIES

ARECACEAE—PALM FAMILY

Washingtonia robusta—Washington fan palm*

POACEAE—GRASS FAMILY

Arundo donax—giant reed*

Avena barbata—slender oat*
Bromus diandrus—ripgut brome*
Bromus madritensis—compact brome*
Bromus tectorum—cheatgrass*
Hordeum murinum—mouse barley*
Leptochloa fusca ssp. *uninervia*—Mexican sprangletop
Poa annua—annual bluegrass*
Polypogon monspeliensis—annual rabbitsfoot grass*
Schismus barbatus—common Mediterranean grass*
Stipa miliacea—unknown needle grass*

WILDLIFE

AMPHIBIAN

FROGS

RANIDAE—TONGUELESS FROGS
Xenopus laevis—African clawed frog*

HYLIDAE—TREEFROGS
Pseudacris cadaverina—California treefrog
Pseudacris hypochondriaca—Baja California treefrog

TOADS

BUFONIDAE—TRUE TOADS
Anaxyrus boreas—western toad

BIRD

BLACKBIRDS, ORIOLES & ALLIES

ICTERIDAE—BLACKBIRDS
Icterus cucullatus—hooded oriole

BUSHTITS

AEGITHALIDAE—LONG-TAILED TITS & BUSHTITS
Psaltriparus minimus—bushtit

CARDINALS, GROSBEAKS & ALLIES

CARDINALIDAE—CARDINALS & ALLIES

Passerina caerulea—blue grosbeak

FINCHES

FRINGILLIDAE—FRINGILLINE & CARDUELINE FINCHES & ALLIES

Haemorhous mexicanus—house finch
Spinus lawrencei—Lawrence's goldfinch
Spinus psaltria—lesser goldfinch

FLYCATCHERS

TYRANNIDAE—TYRANT FLYCATCHERS

Sayornis nigricans—black phoebe
Sayornis saya—Say's phoebe
Tyrannus vociferans—Cassin's kingbird

HAWKS

ACCIPITRIDAE—HAWKS, KITES, EAGLES, & ALLIES

Accipiter striatus—sharp-shinned hawk
Buteo lineatus—red-shouldered hawk
Elanus leucurus—white-tailed kite

HERONS & BITTERNS

ARDEIDAE—HERONS, BITTERNS, & ALLIES

Ardea herodias—great blue heron
Egretta thula—snowy egret

HUMMINGBIRDS

TROCHILIDAE—HUMMINGBIRDS

Calypte anna—Anna's hummingbird
Selasphorus sp.—Allen's/rufous hummingbird

JAYS, MAGPIES & CROWS

CORVIDAE—CROWS & JAYS

Aphelocoma californica—California scrub-jay
Corvus brachyrhynchos—American crow
Corvus corax—common raven

LARKS

ALAUDIDAE—LARKS

Eremophila alpestris—horned lark

MOCKINGBIRDS & THRASHERS

MIMIDAE—MOCKINGBIRDS & THRASHERS

Mimus polyglottos—northern mockingbird

Toxostoma redivivum—California thrasher

OWLS

TYTONIDAE—BARN OWLS

Tyto alba—barn owl

PIGEONS & DOVES

COLUMBIDAE—PIGEONS & DOVES

Zenaida macroura—mourning dove

Streptopelia decaocto—Eurasian collared-dove*

SHOREBIRDS

CHARADRIIDAE—LAPWINGS & PLOVERS

Charadrius vociferus—killdeer

STARLINGS & ALLIES

STURNIDAE—STARLINGS

Sturnus vulgaris—European starling*

SWALLOWS

HIRUNDINIDAE—SWALLOWS

Stelgidopteryx serripennis—northern rough-winged swallow

THRUSHES

TURDIDAE—THRUSHES

Sialia mexicana—western bluebird

Turdus migratorius—American robin

WATERFOWL

ANATIDAE—DUCKS, GEESE, & SWANS

Anas platyrhynchos—mallard
Branta canadensis—Canada goose

WOOD WARBLERS & ALLIES

PARULIDAE—WOOD-WARBLERS

Setophaga coronata—yellow-rumped warbler
Setophaga petechia—yellow warbler

WOODPECKERS

PICIDAE—WOODPECKERS & ALLIES

Picoides nuttallii—Nuttall's woodpecker

WRENS

TROGLODYTIDAE—WRENS

Thryomanes bewickii—Bewick’s wren

NEW WORLD SPARROWS

PASSERELLIDAE—NEW WORLD SPARROWS

Melospiza melodia—song sparrow
Melozone crissalis—California towhee
Passerculus sandwichensis—savannah sparrow

FISH

OTHER BONY FISHES

COTTIDAE—SCULPINS

Cottus asper—prickly sculpin

INVERTEBRATE

BUTTERFLIES

NYMPHALIDAE—BRUSH-FOOTED BUTTERFLIES

Vanessa cardui—painted lady

MAMMAL

CANIDS

CANIDAE—WOLVES & FOXES

Canis latrans—coyote

HARES & RABBITS

LEPORIDAE—HARES & RABBITS

Sylvilagus bachmani—brush rabbit

POCKET GOPHERS

GEOMYIDAE—POCKET GOPHERS

Thomomys bottae—Botta's pocket gopher

RACCOONS

PROCYONIDAE—RACCOONS & RELATIVES

Procyon lotor—raccoon

* signifies introduced (non-native) species

Appendix G. Aquatic Resources Excel Sheet

OMBIL Regulatory Module (ORM)

Project Upload Template

Version Date: 22-May-2018

Please be aware: if older versions of Microsoft Office or Excel are utilized with this template, the user *may* experience issues with the functionality and features of this template.

Reminder: when using copy/paste to transfer data from one template to another, you must *not* use the regular paste functionality. This will cause formatting issues. Instead, use the "paste values" functionality.

Change Log

20-APR-2017 Current Version
- limited list of Cowardin Code options to second and third tiers only

02-JUN-2016 Version
- added a validation to check for garbage characters in the Waters Name column values of all worksheets

31-MAR-2016 Version
- added a Version worksheet
- AqResources worksheet - removed the dropdowns from the header cells
- AqResources worksheet - standardized user functionality with the worksheets from other templates
- AqResources worksheet - changed the format of columns I (Latitude) and J (Longitude) to be decimal formatted numers with 8 significant digits of precision
- AqResources worksheet - added a Validation check to ensure Amount > zero
- AqResources worksheet - add validation check requiring Water Type of Upland (Rapanos)/Dry Land (CWR) when Cowardin Code = U

FINALIZE	Please denote if sheet should be finalized
Yes/No	
Yes	Aquatic Resources

Waters_Name	State	Cowardin_Code	HGM_Code	Meas_Type	Amount	Units	Waters_Type	Latitude	Longitude	Local_Waterway
Wetland Unnamed Drainage 1	CALIFORNIA	PFO		Area	0.06	ACRE	RPWWD	34.45100000	-118.61600000	
Wetland Unnamed Drainage 2	CALIFORNIA	PFO		Area	0.03	ACRE	RPWWD	34.45100000	-118.61700000	
Non-Wetland Waters Unnamed Drainage 1	CALIFORNIA			Area	0.02	ACRE	RPW	34.45100000	-118.61500000	
Castaic Creek Non-Wetland Waters	CALIFORNIA	R4SB	RIVERINE	Area	1.15	ACRE	RPW	34.45100000	-118.61500000	

Worksheet	Column	Cell	Warning

Column Headers in GREEN on UPLOAD Tab are Required or are Required to Finalize

AQUATIC RESOURCES VALIDATION

"Waters_Name" is required.
"Waters_Name" must contain unique values.
"State" is required.
"Cowardin Code" is required.
"Meas_Type" is required.
"Amount" is required.
"Amount" must be greater than zero
"Units" is required
"Waters Type" is required
"Latitude" is required.
"Longitude" is required (negative value in western hemisphere).
"Cowardin Code" of U (Uplands) must have associated "Waters Type" of Upland

Waters_Type	Description
DELINEATE	Delineation Only - PJD or No JD Required
IMPNDMNT	Impoundments
ISOLATE	Isolated (interstate or intrastate) waters, including isolated wetlands
NRPW	Non-RPWs that flow directly or indirectly into TNWs
NRPWW	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
RPW	Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs
RPWWD	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
RPWWN	Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
TNW	TNWs, including territorial seas
TNWRPW	Tributary consisting of both RPWs and non-RPWs
TNWW	Wetlands adjacent to TNWs
UPLAND	Uplands

HGM_Code	Name	Description
DEPRESS	Depressional	Depressional is characterized by a water source consisting of return flow from groundwater and interflow with primarily vertical hydrodynamics.
ESTUARINEF	Estuarine Fringed	The water source of the estuarine fringe consists of overbank flow from estuaries, with bidirectional and horizontal hydrodynamics being dominant.
LACUSTRINF	Lacustrine Fringe	A Lacustrine fringe has a dominant water source of lake overbank flow, and the dominant hydrodynamics are bidirectional and horizontal.
MINSOILFLT	Mineral Soil Flats	Mineral soil flats have a water source of precipitation, and vertical hydrodynamics are dominant.
ORGSOILFLT	Organic Soil Flats	Organic soil flats have precipitation as the water source, and its dominant hydrodynamic is vertical.
RIVERINE	Riverine	Riverine is characterized by a water source of overbank flow from a channel, and hydrodynamics which are predominantly unidirectional and horizontal.
SLOPE	Slope	The Slope wetland class is characterized by a water source of return flow from groundwater, with principally unidirectional and horizontal hydrodynamics.

Cowardin_Code	Category	Description	Name
E1	Estuarine	Subtidal, Estuarine	E1-ESTUARINE, SUBTIDAL
E1AB	Estuarine	Aquatic Bed, Estuarine	E1AB-ESTUARINE, SUBTIDAL, AQUATIC BED
E1OW	Estuarine	Open Water, Subtidal, Estuarine (used on older maps)	E1OW-ESTUARINE, SUBTIDAL, OPEN WATER
E1RB	Estuarine	Rock Bottom, Subtidal, Estuarine	E1RB-ESTUARINE, SUBTIDAL, ROCK BOTTOM
E1RF	Estuarine	Reef, Subtidal, Estuarine	E1RF-ESTUARINE, SUBTIDAL, REEF
E1UB	Estuarine	Unconsolidated Bottom, Subtidal, Estuarine	E1UB-ESTUARINE, SUBTIDAL UNCONSOLIDATED BOTTM
E2	Estuarine	Intertidal, Estuarine	E2-ESTUARINE, INTERTIDAL
E2AB	Estuarine	Aquatic Bed, Intertidal, Estuarine	E2AB-ESTUARINE, INTERTIDAL, AQUATIC BED
E2EM	Estuarine	Emergent, Intertidal, Estuarine	E2EM-ESTUARINE, INTERTIDAL, EMERGENT
E2FO	Estuarine	Forested, Intertidal, Estuarine	E2FO-ESTUARINE, INTERTIDAL, FORESTED
E2RF	Estuarine	Reef, Intertidal, Estuarine	E2RF-ESTUARINE, INTERTIDAL, REEF
E2RS	Estuarine	Rocky Shore, Intertidal, Estuarine	E2RS-ESTUARINE, INTERTIDAL, ROCKY SHORE
E2SB	Estuarine	Stream Bed, Intertidal, Estuarine	E2SB-ESTUARINE, INTERTIDAL, STREAM BED
E2SS	Estuarine	Scrub-Shrub, Intertidal, Estuarine	E2SS-ESTUARINE, INTERTIDAL, SCRUB-SHRUB
E2US	Estuarine	Unconsolidated Shore, Intertidal, Estuarine	E2US-ESTUARINE, INTERTIDAL, UNCONSOL SHORE
L1	Lacustrine	Lacustrine - Includes wetlands and deepwater habitats with all of the following characteristics: (1) situated in a to	L1-LACUSTRINE, LIMNETIC
L1AB	Lacustrine	Aquatic Bed, Limnetic, Lacustrine	L1AB-LACUSTRINE, LIMNETIC, AQUA BED
L1OW	Lacustrine	Open Water/Unknown Bottom, Limnetic, Lacustrine (used on older maps)	L1OW-LACUSTRINE, LIMNETIC, OPEN WATER/UNK BOT
L1RB	Lacustrine	Rock Bottom, Limnetic, Lacustrine	L1RB-LACUSTRINE, LIMNETIC, ROCK BOTTOM
L1UB	Lacustrine	Unconsolidated Bottom, Limnetic, Lacustrine	L1UB-LACUSTRINE, LIMNETIC, UNCONSOL BOTTOM
L2	Lacustrine	Littoral, Lacustrine	L2-LACUSTRINE, LITTORAL
L2AB	Lacustrine	Aquatic Bed, Littoral, Lacustrine	L2AB-LACUSTRINE, LITTORAL, AQUA BED
L2EM	Lacustrine	Emergent, Littoral, Lacustrine	L2EM-LACUSTRINE, LITTORAL, EMERGENT
L2OW	Lacustrine	Open Water/Unknown Bottom, Littoral, Lacustrine	L2OW-LACUSTRINE, LITTORAL, OPEN WATER
L2RB	Lacustrine	Rock Bottom, Littoral, Lacustrine	L2RB-LACUSTRINE, LITTORAL, ROCK BOTTOM
L2RS	Lacustrine	Rocky Shore, Littoral, Lacustrine	L2RS-LACUSTRINE, LITTORAL, ROCKY SHORE
L2UB	Lacustrine	Unconsolidated Bottom, Littoral, Lacustrine	L2UB-LACUSTRINE, LITTORAL, UNCONSOL BOT
L2US	Lacustrine	Unconsolidated Shore, Littoral, Lacustrine	L2US-LACUSTRINE, LITTORAL, UNCONSOL SHORE
M1	Marine	Subtidal Marine	M1-MARINE, SUBTIDAL
M1AB	Marine	Aquatic Bed, Subtidal, Marine	M1AB-MARINE, SUBTIDAL, AQUATIC BED
M1OW	Marine	Open Water, Subtidal, Marine (Used on older maps)	M1OW-MARINE, SUBTIDAL, OPEN WATER
M1RB	Marine	Rock Bottom Subtidal Marine	M1RB-MARINE, SUBTIDAL, ROCK BOTTOM
M1RF	Marine	Reef, Subtidal, Marine	M1RF-MARINE, SUBTIDAL, REEF
M1UB	Marine	Unconsolidated Bottom, Subtidal, Marine	M1UB-MARINE, SUBTIDAL, UNCONSOLIDATED BOTTOM
M2	Marine	Intertidal, Marine	M2-MARINE, INTERTIDAL
M2AB	Marine	Aquatic Bed, Intertidal, Marine	M2AB-MARINE, INTERTIDAL, AQUATIC BED
M2RF	Marine	Reef, Intertidal, Marine	M2RF-MARINE, INTERTIDAL, REEF
M2RS	Marine	Rocky Shore, Intertidal, Marine	M2RS-MARINE, INTERTIDAL, ROCKY SHORE
M2US	Marine	Unconsolidated Shore, Intertidal, Marine	M2US-MARINE, INTERTIDAL, UNCONSOLIDATED SHORE
PAB	Palustrine	Aquatic Bed, Palustrine	PAB-PALUSTRINE, AQUA BED
PAB1	Palustrine	Algal, Aquatic Bed, Palustrine	PAB1-PALUSTRINE, AQUA BED, ALGAL
PAB2	Palustrine	Aquatic Moss, Aquatic Bed, Palustrine	PAB2-PALUSTRINE, AQUA BED, AQUATIC MOSS
PAB3	Palustrine	Rooted Vascular, Aquatic Bed, Palustrine	PAB3-PALUSTRINE, AQUA BED, ROOTED VASC
PAB4	Palustrine	Floating Vascular, Aquatic Bed, Palustrine	PAB4-PALUSTRINE, AQUA BED, FLOAT VASC
PAB5	Palustrine	Unknown Submergent, Aquatic Bed, Palustrine	PAB5-PALUSTRINE, AQUA BED, UNK SUB
PAB6	Palustrine	Unknown Surface, Aquatic Bed, Palustrine	PAB6-PALUSTRINE, AQUA BED, UNK SURF
PEM	Palustrine	Emergent, Palustrine	PEM-PALUSTRINE, EMERGENT
PFO	Palustrine	Forested, Palustrine	PFO-PALUSTRINE, FORESTED
PML	Palustrine	Moss-Lichens, Palustrine	PML-PALUSTRINE, MOSS-LICHENS
POW	Palustrine	POW-PALUSTRINE, OPEN WATER	POW-PALUSTRINE, OPEN WATER
PRB	Palustrine	Rock Bottom, Palustrine	PRB-PALUSTRINE, ROCK BOTTOM
PSS	Palustrine	Scrub-Shrub, Palustrine	PSS-PALUSTRINE, SCRUB-SHRUB
PUB	Palustrine	Unconsolidated Bottom, Palustrine	PUB-PALUSTRINE, UNCONSOL BOT
R1	Riverine	Tidal, Riverine	R1-RIVERINE, TIDAL
R1AB	Riverine	Aquatic Bed, Tidal, Riverine	R1AB-RIVERINE, TIDAL, AQUATIC BED
R1EM	Riverine	Emergent, Tidal, Riverine	R1EM-RIVERINE, TIDAL, EMERGENT
R1RB	Riverine	Rock Bottom, Tidal, Riverine	R1RB-RIVERINE, TIDAL, ROCK BOTTOM
R1RS	Riverine	Rocky Shore, Tidal, Riverine	R1RS-RIVERINE, TIDAL, ROCKY SHORE
R1SB	Riverine	Streambed, Tidal, Riverine	R1SB-RIVERINE, TIDAL, STREAMBED
R1UB	Riverine	Unconsolidated Bottom, Tidal, Riverine	R1UB-RIVERINE, TIDAL, UNCONSOLIDATED BOTTOM
R1US	Riverine	Unconsolidated Shore, Tidal, Riverine	R1US-RIVERINE, TIDAL, UNCONSOL SHORE
R2	Riverine	Lower Perennial, Riverine	R2-RIVERINE, LOWER PERENNIAL
R2AB	Riverine	Aquatic Bed, Lower Tidal, Riverine	R2AB-RIVERINE, LOWER PEREN, AQUA BED
R2EM	Riverine	Emergent, Lower Tidal, Riverine	R2EM-RIVERINE, LOWER PEREN, EMERGENT
R2RB	Riverine	Rock Bottom, Lower Perennial, Riverine	R2RB-RIVERINE, LOWER PEREN, ROCK BOTTOM
R2RS	Riverine	Rocky Shore, Lower Tidal, Riverine	R2RS-RIVERINE, LOWER PEREN, ROCKY SHORE
R2UB	Riverine	Unconcolidated Bottom, Lower Perennial, Riverine	R2UB-RIVERINE, LOWER PEREN, UNCONSOL BOT
R2US	Riverine	Unconsolidated Shore, Lower Tidal, Riverine	R2US-RIVERINE, LOWER PEREN, UNCONSOL SHORE
R3	Riverine	Upper Perennial, Riverine	R3-RIVERINE, UPPER PERENNIAL
R3AB	Riverine	Aquatic Bed, Upper Perennial, Riverine	R3AB-RIVERINE, UPPER PEREN, AQUA BED
R3RB	Riverine	Rock Bottom, Upper Perennial, Riverine	R3RB-RIVERINE, UPPER PEREN, ROCK BOTTOM
R3RS	Riverine	Rocky Shore, Upper Perennial, Riverine	R3RS-RIVERINE, UPPER PEREN, ROCKY SHORE
R3UB	Riverine	Unconsolidated Bottom, Upper Perennial, Riverine	R3UB-RIVERINE, UPPER PEREN, UNCONSOL BOT
R3US	Riverine	Unconsolidated Shore, Upper Perennial, Riverine	R3US-RIVERINE, UPPER PEREN, UNCONSOL SHR
R4	Riverine	Intermittent, Riverine	R4-RIVERINE, INTERMIT
R4SB	Riverine	Streambed, Intermittent, Riverine	R4SB-RIVERINE, INTERMIT, STREAMBED
R5	Riverine	Unknown Perennial, Riverine	R5-RIVERINE, UNKNOWN PERENNIAL
R5AB	Riverine	Aquatic Bed, Unknown Perennial, Riverine	R5AB-RIVERINE, UNK PEREN, AQUA BED
R5RB	Riverine	Rock Bottom, Unknown Perennial, Riverine	R5RB-RIVERINE, UNK PEREN, ROCK BOTTOM
R5RS	Riverine	Rocky Shore, Unknown Perennial, Riverine	R5RS-RIVERINE, UNK PEREN, ROCKY SHORE
R5UB	Riverine	Unconsolidated Bottom, Unknown Perennial, Riverine	R5UB-RIVERINE, UNK PEREN, UNCONSOLIDATED BOTTOM
R5US	Riverine	Unconsolidated Shore, Unknown Perennial, Riverine	R5US-RIVERINE, UNK PEREN, UNCONCOL SHORE
R6	Riverine	A wetland, spring, stream, river, pond or lake that only exists for a short period	R6 - RIVERINE, EPHEMERAL
RP	Riparian	Riparian - Plant communities contiguous to and affected by surface and subsurface hydrologic features of peren	RP-RIPARIAN
RP1	Riparian	Lotic, Riparian	RP1-RIPARIAN, LOTIC

RP1EM	Riparian	Emergent, Lotic, Riparian	RP1EM-RIPARIAN, LOTIC, EMERGENT
RP1FO	Riparian	Forested, Lotic, Riparian	RP1FO-RIPARIAN, LOTIC, FORESTED
RP1SS	Riparian	Scrub-Shrub, Lotic, Riparian	RP1SS-RIPARIAN, LOTIC, SCRUB-SHRUB
RP2	Riparian	Lentic, Riparian	RP2-RIPARIAN, LENTIC
RP2EM	Riparian	Emergent, Lentic, Riparian	RP2EM-RIPARIAN, LENTIC, EMERGENT
RP2FO	Riparian	Forested, Lentic. Riparian	RP2FO-RIPARIAN, LENTIC, FORESTED
RP2SS	Riparian	Scrub-Shrub, Lentic, Riparian	RP2SS-RIPARIAN, LENTIC, SCRUB-SHRUB
U	Uplands	Upland - Not a wetland or deepwater habitat of the United States as described by Cowardin.	U-UPLANDS

Compatibility Report for Appendix I.xls
Run on 8/4/2019 22:31

If the workbook is saved in an earlier file format or opened in an earlier version of Microsoft Excel, the listed features will not be available.

Significant loss of functionality	# of occurrences	Version
Some cells have overlapping conditional formatting ranges. Earlier versions of Excel will not evaluate all of the conditional formatting rules on the overlapping cells. The overlapping cells will show different conditional formatting.	1 AqResources'! A2:A14	Excel 97-2003
Some cells contain conditional formatting with the 'Stop if True' option cleared. Earlier versions of Excel do not recognize this option and will stop after the first true condition.	2 AqResources'! A:A	Excel 97-2003

Minor loss of fidelity

Some formulas in this workbook are linked to other workbooks that are closed. When these formulas are recalculated in earlier versions of Excel without opening the linked workbooks, characters beyond the 255-character limit cannot be returned.	25 Defined Names	Excel 97-2003
This workbook contains a customized Quick Access Toolbar and/or custom user interface parts that are not supported in earlier versions of Excel. These custom features will not be available in earlier versions of Excel.	1	Excel 97-2003
Some cells or styles in this workbook contain formatting that is not supported by the selected file format. These formats will be converted to the closest format available.	7	Excel 97-2003

Appendix F – Southwestern Willow Flycatcher Survey Report

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September 13, 2019

Chris Kofron
Recovery Permit Coordinator
Ventura Fish and Wildlife Office
2493 Portola Road, Suite B
Ventura, CA 93003

Subject: **45-Day Report—Presence/Absence Surveys for Southwestern Willow Flycatcher (*Empidonax traillii extimus*) on the Santa Clara River and Castaic Creek, Los Angeles and Ventura Counties, California**

Dear Mr. Kofron:

This letter and attached information is intended to satisfy the 45-day reporting requirements for the 2019 presence/absence surveys for southwestern Willow Flycatcher (*Empidonax traillii extimus*) conducted by Woodstar Biological LLC/Compliance Biology biologists for FivePoint LLC's continuing monitoring of the Santa Clara River and tributaries in Santa Clarita. Below you will find a summary of survey methods and results, and attached are Figures 1-8 showing survey areas and maps of species detections, a survey methods table (Attachment A), a target species detections details table (Attachment B), tables of other pertinent observations (Attachments C – H), and a table of all bird species detected during the surveys (Attachment I). The survey outline table summarizes the dates, times, survey personnel, and weather conditions of all presence/absence surveys. The target species detection information tables have the GPS coordinates and notes on the detections of the target species. The pertinent observations tables comprise annotated lists of "special status" species including Least Bell's Vireo (*Vireo bellii pusillus*), Yellow Warbler (*Setophaga petechia*), Yellow-breasted Chat (*Icteria virens*), Brown-headed Cowbirds (*Molothrus ater*), non-avian listed species, as well as incidentally detected bird nests observed during these surveys.

Survey Areas

The entire survey area spans approximately 11 kilometers of the Santa Clara River from the entrance to Newhall Ranch just west of the Los Angeles/Ventura County line upstream (east) to the crossing with Interstate 5. The survey area also includes Castaic Creek from its confluence with the Santa Clara River upstream approximately 4.1 kilometers to its crossing of Interstate 5. The survey area comprises the project areas designated as Natural Resource

Management Plan (NRMP) Protocol Survey Area, covering approximately 6.1 kilometers of the Santa Clara River, and the Resource Management and Development Plan (RMDP) Survey Area, covering approximately 5.9 kilometers of the Santa Clara River.

The survey area is contained within the riverbanks and is a mix of wetland, woodland, and scrub. Winter rains annually affect the path of the channel and create extensive sandbars and debris piles that vary from year to year. Upland parts of the riverbed above the flood line are largely Fremont cottonwood (*Populus fremontii*) and coast live oak (*Quercus agrifolia*) woodland and *Baccharis* scrub with ground cover largely of non-native annual grasses (esp. *Bromus diandrus*). Within the riverbed, vegetation is dominated by willow riparian forest (*Salix sp.*), much of it thickets of sandbar willow (*Salix exigua*) and dense stands of *Arundo donax*. Some tamarisk (*Tamarix sp.*) is present, though most are small saplings on ephemeral gravel bars. The Rye Canyon fire of December, 2017 burned approximately 2 miles of riparian forest in the NRMP survey area. The burned areas are largely re-growing in dense stands of *Arundo donax*. A small fire on June 9, 2019 ("The Sky Fire") burned several acres of riparian woodland between the Six Flags back lot and The Old Road. The Santa Clara River has permanent flow downstream of the water treatment plant (near the I-5 crossing), and is mostly dry upstream of there. Water releases from Castaic Lake in the first half of the survey period supplied a flow (multiple times normal) in Castaic Creek and the Santa Clara River downstream of the confluence.

The entire survey area was divided into seven sub-areas that could each be thoroughly covered in a morning: the NRMP survey area was divided in two, RMDP in two, the Ventura County portion in two, and the Castaic Creek portion was surveyed in a single morning. The survey area and sub-area divisions are shown in Figure 1.

Survey Methods

Southwestern Willow Flycatcher

Surveys for southwestern Willow Flycatcher follow the 2010 USGS protocol. Five focused survey visits for southwestern willow flycatcher are conducted in suitable habitat, one within the first survey period (May 15–31), and two each within the second and third survey periods (June 1–24; June 25–July 17). Each survey visit is conducted at least 5 days apart with careful and thorough coverage of all suitable habitats. All surveys are conducted between one hour before sunrise and 10:30 a.m., when Willow Flycatchers are most active. Playing of recorded vocalizations is performed through the suitable habitat and is to be discontinued if a Willow Flycatcher shows undue disturbance or potential predators are present. Surveys are to be conducted by a permitted biologist.

Least Bell's Vireo

Surveys for least Bell's Vireo follow the 2001 USFWS protocol. Eight focused survey visits for least Bell's vireo are conducted between April 10 and July 31 at each site. Each survey visit is conducted at least 10 days apart with careful and thorough coverage of all suitable

habitats. All surveying is conducted during morning hours between sunrise and 11:00 a.m., when vireos are most active. Playing of recorded vocalizations is not part of the survey protocol. No permit is required to conduct presence/absence surveys of Least Bell's Vireo.

Survey Results

Coverage of the survey areas was done entirely on foot, often from the water of the river channel, and weaving through the dense riparian vegetation on both sides of the river, and when available, using the adjacent farm roads.

Surveys for southwestern Willow Flycatcher, and least Bell's Vireo were conducted by Jonathan Feenstra (USFWS 10(A) permit number: TE – 128462-3) with some least Bell's Vireo surveys conducted by John Garrett, Dan Maxwell, and Adam Searcy.

Survey visit information is compiled in the table in Attachment A.

Southwestern Willow Flycatcher

Surveys were conducted in the NRMP, RMDP, and Castaic Creek survey areas following the USFWS protocol, though occasionally additional time was spent if conditions were such that there was no discernible reduction in bird activity or a return pass was being made through the suitable habitat. The protocol presence/absence surveys for southwestern Willow Flycatcher were mostly conducted concurrently with surveys for least Bell's Vireo (see Attachment A).

There were twelve detections of Willow Flycatchers on surveys. Most birds were singing spontaneously or in response to the played vocalizations, though one silent and unresponsive individual was also found. One observation was of a single singing bird in the VenCo-1 survey area detected incidentally during a Least Bell's Vireo survey. Most of the detections were on a single day of surveying in the RMDP-2 survey area, presumably coinciding with a major flight of migrants. None were found during the critical third period, nor were any exhibiting breeding behavior. All detections occurred within the typical period of migration of this species through the area. See Figure 2 and Attachment B for details of the observations.

Least Bell's Vireo

Surveys were conducted following the USFWS protocol, though occasionally additional time was spent if conditions were such that there was no discernible reduction in bird activity or a return pass was being made through the suitable habitat. The presence/absence surveys for least Bell's Vireo were mostly conducted concurrently with surveys for southwestern Willow Flycatcher (see Attachment A).

Bell's Vireos were common throughout the survey area and were detected on every visit. Based on the number of singing males a maximum of 58 different Bell's Vireo territories were identified. Successful breeding was confirmed by the presence of fledged young in

eleven of the territories. In two other territories breeding was suspected but not confirmed. There were no observed instances of Brown-headed Cowbird parasitism. Territories were nearly all clustered along the river in the adjacent willow riparian forest. There were few territories in the forest burned in the Rye Canyon Fire of December 2017. The Sky Fire occurred between the fifth and sixth rounds of Bell's Vireo surveys and burned mostly forest that was unoccupied by vireos. Little change was observed in territory distribution. The map of Bell's Vireo detections is shown in Figure 3. Details of each observation showing the tracking of each territory are compiled in Attachment C.

Brown-headed Cowbirds

Brown-headed Cowbirds were detected in all survey areas. No cowbird parasitism was observed. Detections are shown on the map in Figure 6, and observation details are listed in Attachment F. Cowbird trapping conducted by the Woodstar/Compliance Biology team occurred in the RMDP and NRMP areas between April 1 and August 12 with 156 Brown-headed Cowbirds collected.

Conclusions

Drawing on the results of these surveys, Willow Flycatchers were not breeding but are fairly common migrants through the survey area. The permanent water supply, high quality riparian forest, and little disturbance at this site would seem to be excellent conditions for this species, though they are inexplicably absent from many suitable-appearing parts of their former range. Their absence there this year (and previous years) is no indication that this species couldn't nest here in the future and surveys should continue.

The Santa Clara River through the survey areas is highly suitable for occupation by least Bell's Vireo. The seasonal flooding and consequent multi-stage successional riparian forest makes for ideal breeding habitat. The two miles of riparian forest that were burned during the Rye Canyon fire in December 2017 held comparatively few Bell's Vireo territories. These areas are largely re-growing in dense thickets of *Arundo donax* and may remain less than ideal in future years. However, an area of the river that had been restored in the past two years as part of a mitigation project (within the RMDP-1 survey area) held at least two Bell's Vireo territories this season as well as other riparian obligate species like Yellow Warbler and Yellow-breasted Chat, demonstrating that such restoration projects may be productive in increasing Bell's Vireo numbers elsewhere on the river in the future. Parasitism by Brown-headed Cowbirds is an issue for breeding Bell's Vireos and other sensitive riparian birds. No instances of parasitism were observed this year, likely a consequence of cowbird trapping through the breeding season.

In addition to the sensitive bird species, 125 bird species were observed cumulatively on the surveys. Bird species by survey region are shown in Attachment I. Bird nests found incidentally are annotated in Attachment G and mapped in Figure 7.

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Additional Pertinent Observations

Special status species

A White-tailed Kite (*Elanus leucurus*) nest that fledged 5 young was found along the river in the RMDP-1 survey area. Yellow Warblers and Yellow-breasted Chat were widespread through the survey areas throughout the season and detections were annotated during all Willow Flycatcher and Bell's Vireo surveys. Breeding was confirmed for Yellow Warbler and highly suspected for Yellow-breasted Chat. Maps of their detections are shown in Figures 4 and 5. Details of the detections are listed in Attachment D and E. Other special status species, such as Western Pond Turtle and Coastal Western Whiptail, are annotated in Attachment H and mapped in Figure 8.

Please do not hesitate to contact me with any questions.

Sincerely,

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Attachments

Figures 1-8: Survey area maps and locations of detections
Attachment A: Survey methodology table
Attachment B: Annotated list of Willow Flycatcher detections
Attachment C: Annotated list of Least Bell's Vireo detections
Attachment D: Annotated list of Yellow Warbler detections
Attachment E: Annotated list of Yellow-breasted Chat detections
Attachment F: Annotated list of Brown-headed Cowbird detections
Attachment G: Annotated list of incidental bird nests
Attachment H: Annotated list of "special status" species detections
Attachment I: Cumulative bird list

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I certify that the information in this survey report and attached materials fully and accurately represents my work.

Jonathan Feenstra 9/13/2019

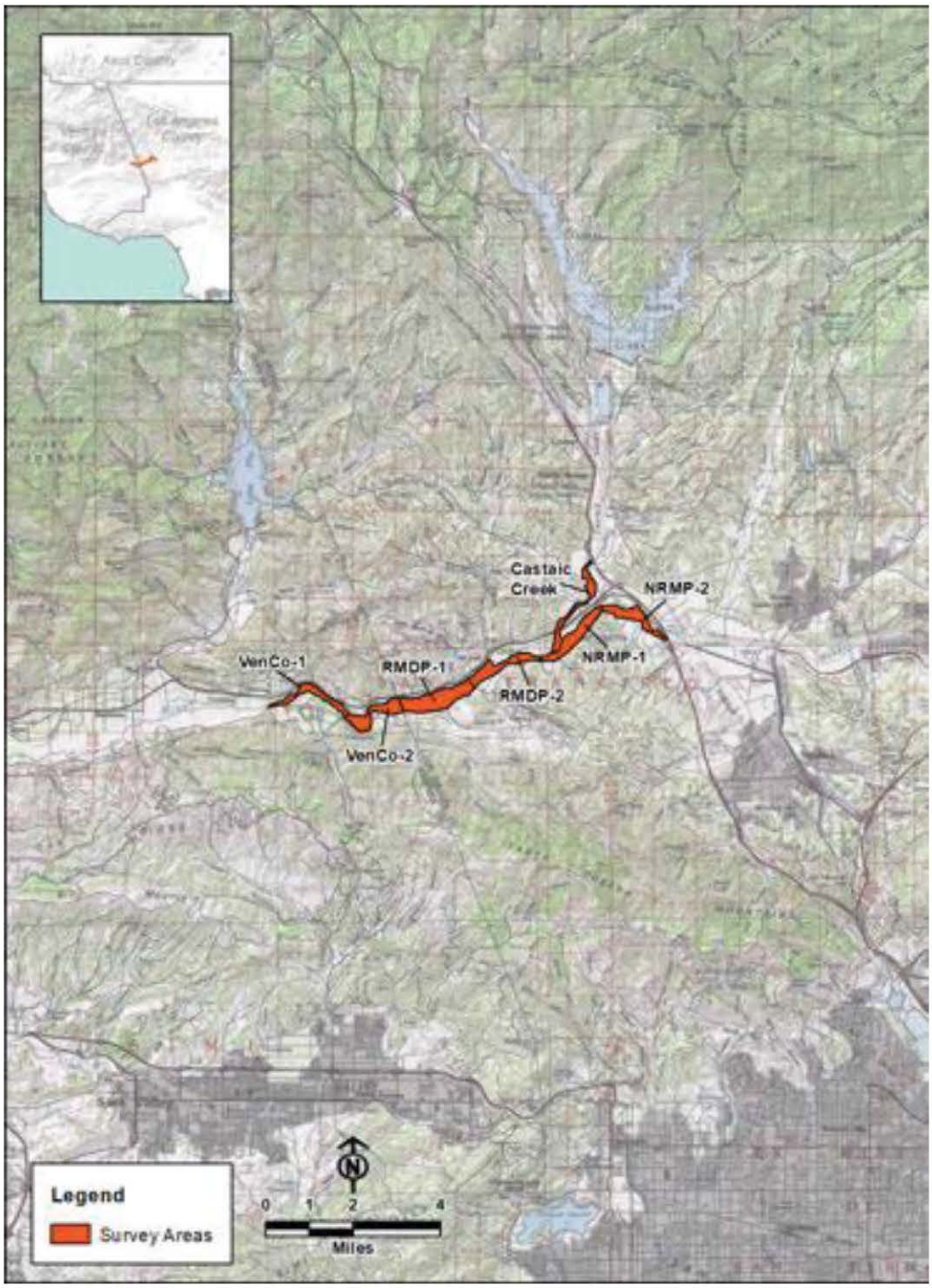


Figure 1: The survey area along the Santa Clara River is shown in red in the USGS 1:24000 scale topographic map. The inset shows the location of the survey area on a regional scale. The RMDP, NRMP, and Castaic Creek areas were surveyed for southwestern Willow Flycatcher (see text).

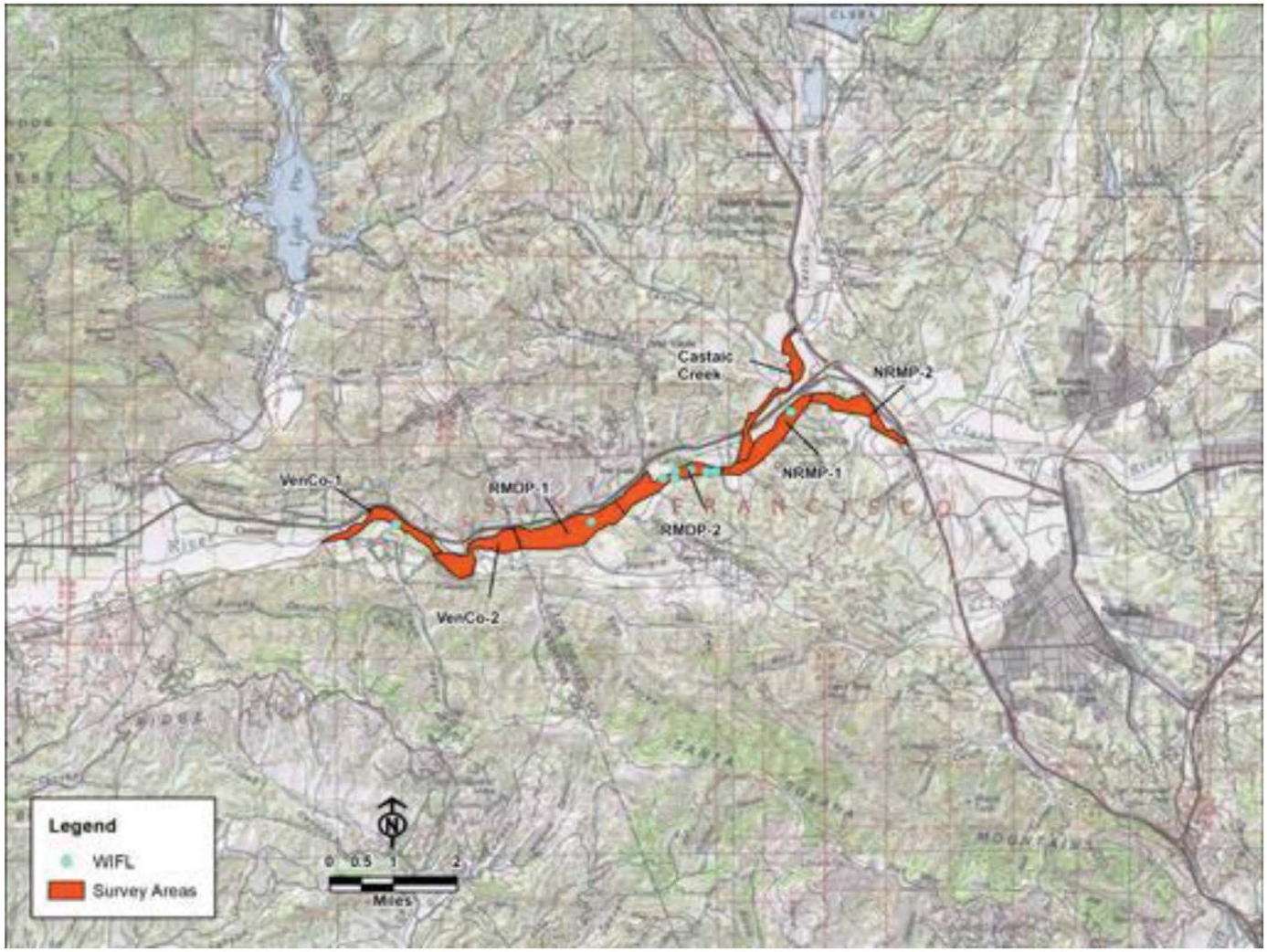


Figure 2: Willow Flycatcher detections (turquoise dots). WIFL protocol surveys were conducted in the NRMP and RMDP survey areas. The detection in the VenCo survey area was incidental during a Least Bell's Vireo survey.

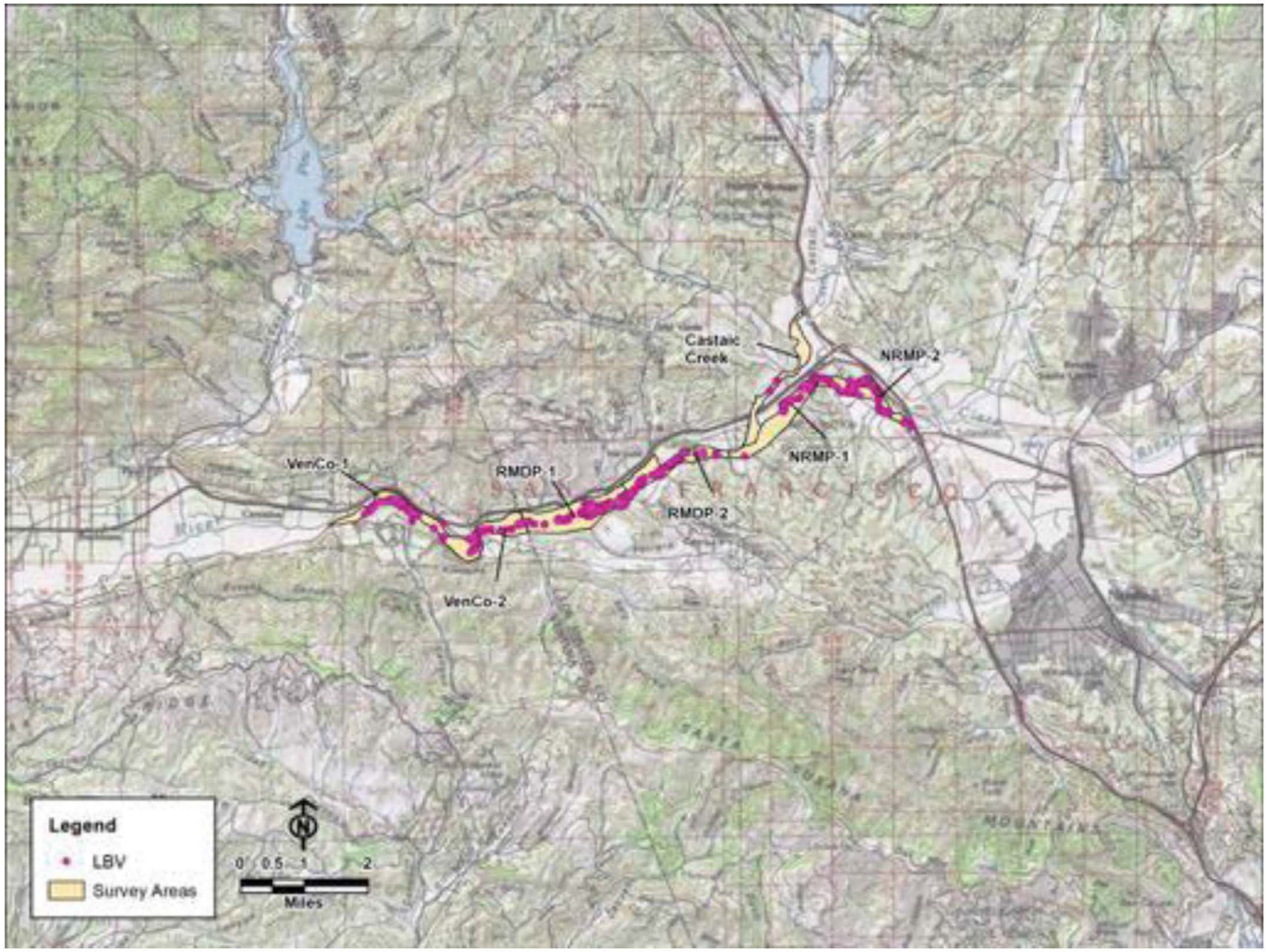


Figure 3: Bell's Vireo detections (pink dots).

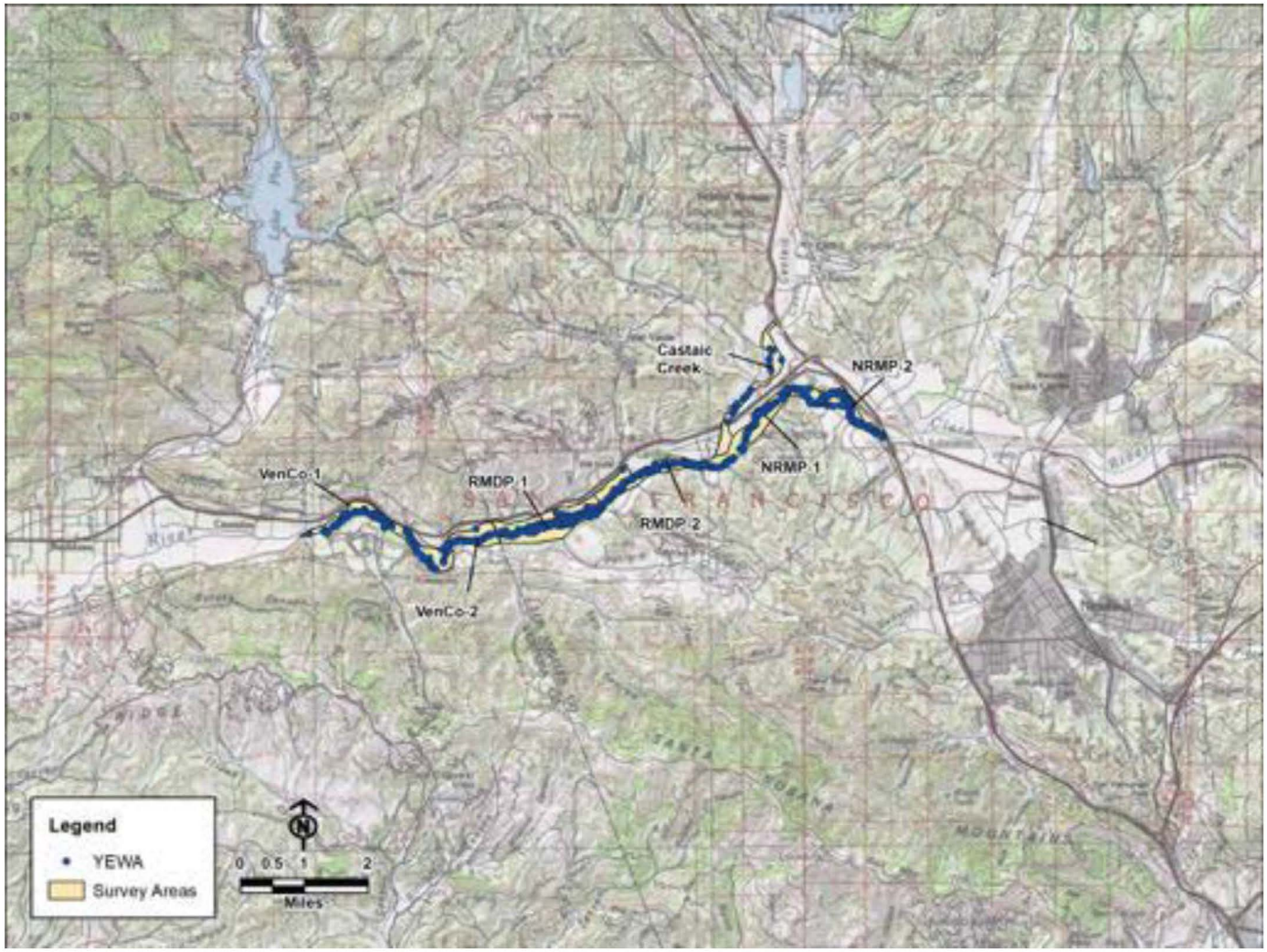


Figure 4: Yellow Warbler detections (blue dots).

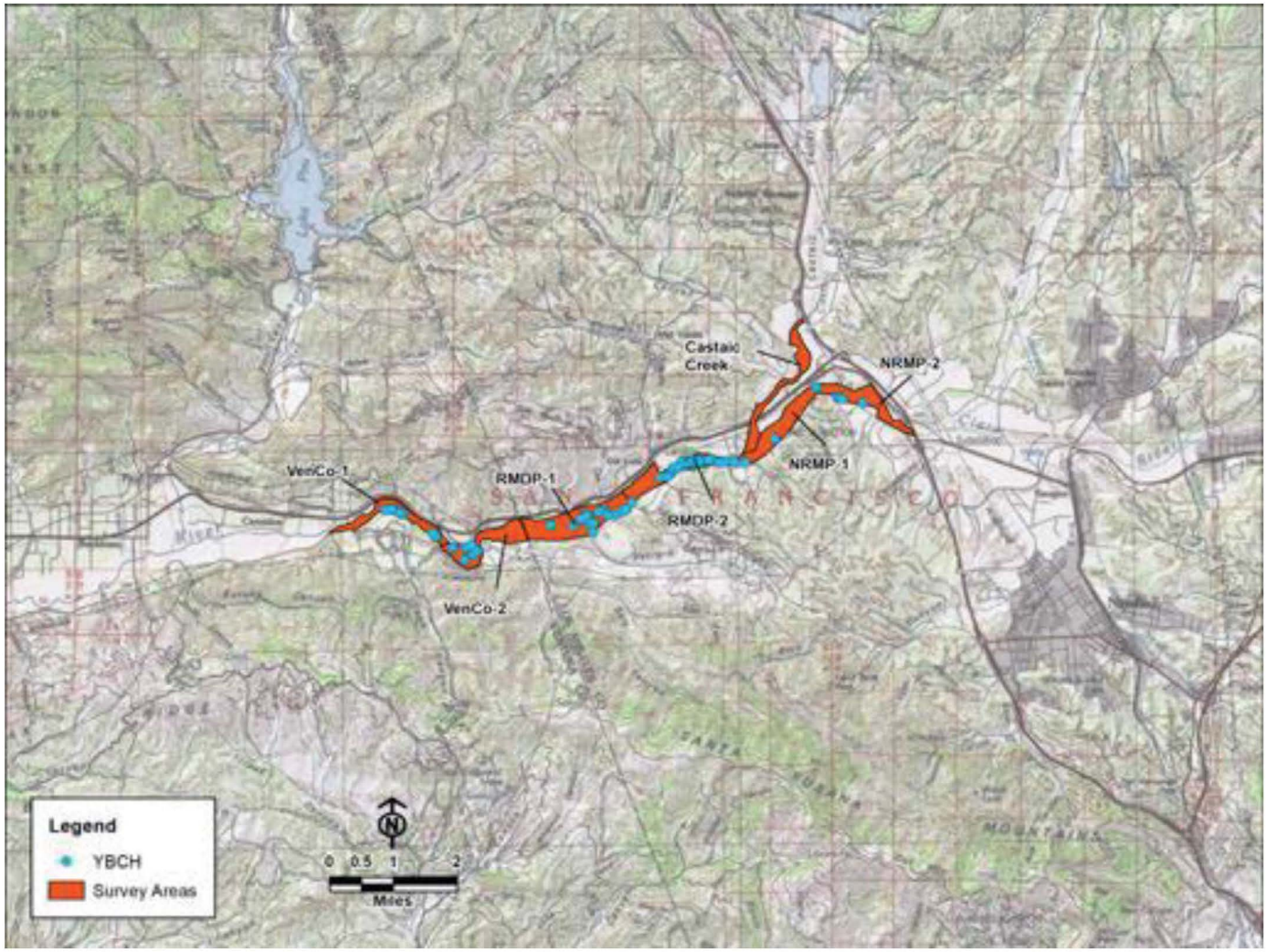


Figure 5: Yellow-breasted Chat detections (pale blue dots).

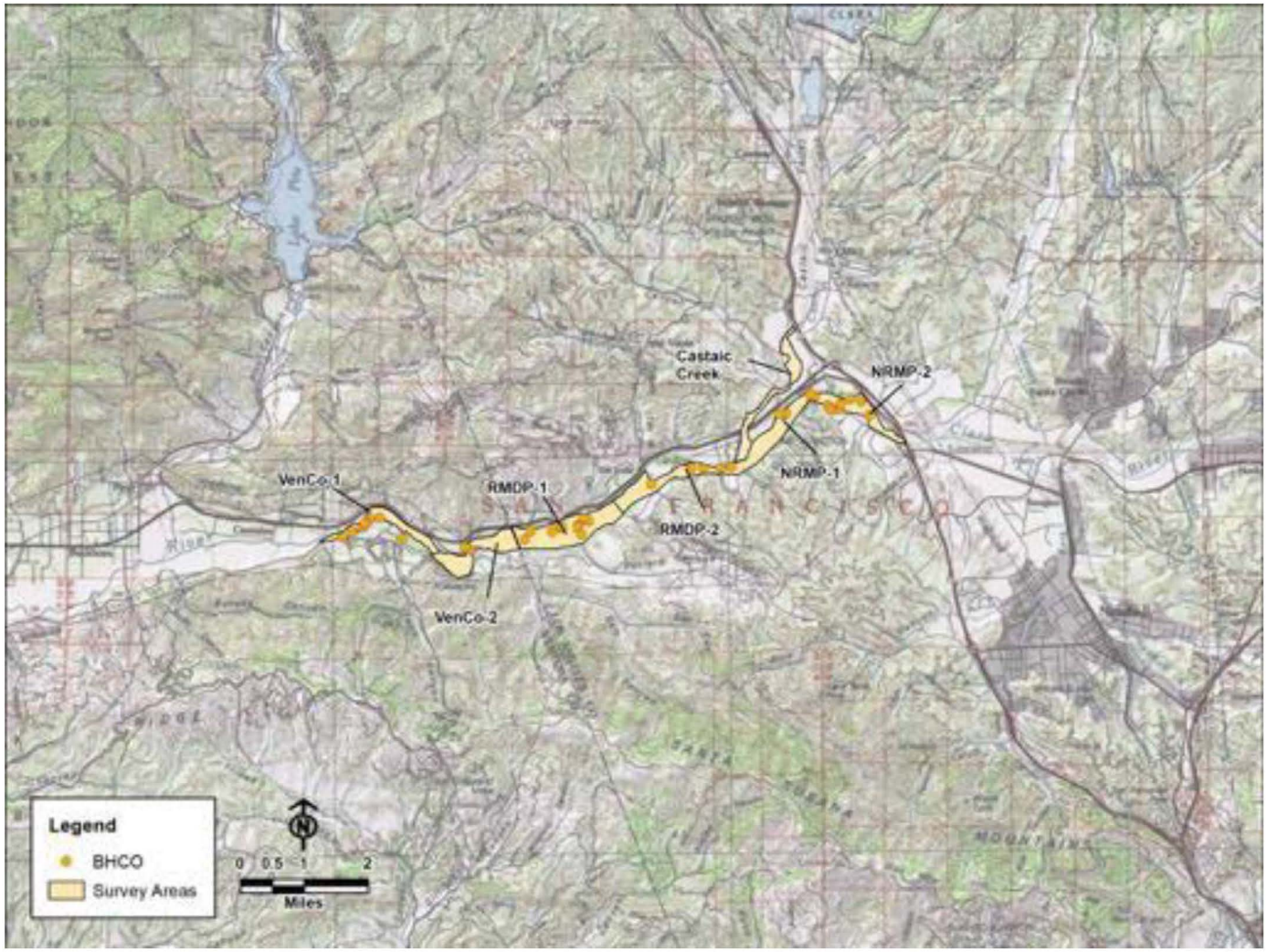


Figure 6: Brown-headed Cowbird detections (orange dots).

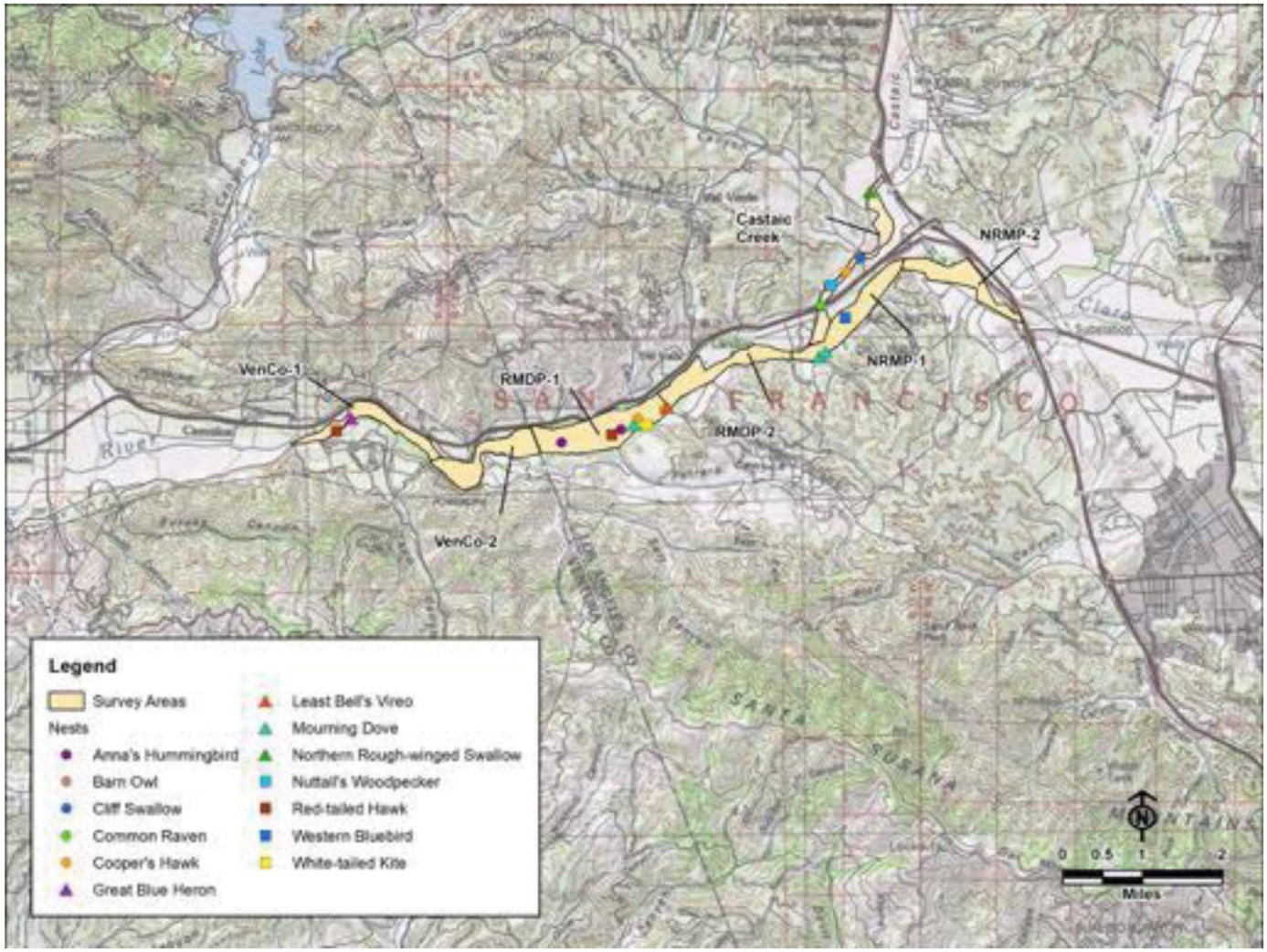


Figure 7: Bird nests incidentally found during the surveys (see Attachment H).

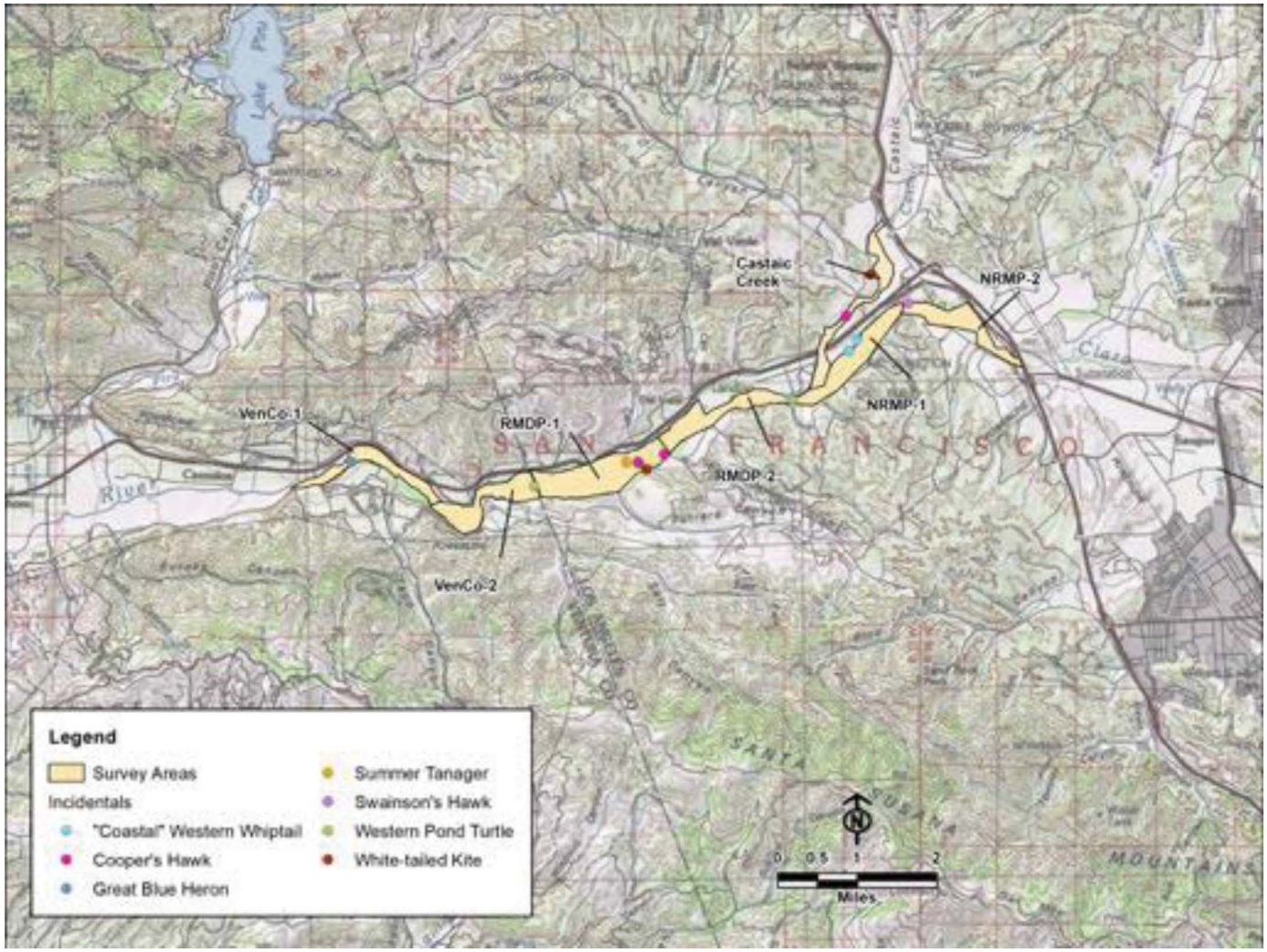


Figure 8: Detections of "special status" species found during the surveys (see text and Attachment G).

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Attachment A: Protocol Presence/Absence Survey Methods Table

Survey Date	LBV Survey #	WIFL Survey #	Surveyor	Protocol Survey Times		Atmospheric Conditions		
				Start Survey Times	End Survey Times	Air Temp. (°F)	Percent Cloud Cover	Wind Speed (mph)
NRMP (1)								
4/14/2019	1	-	Maxwell	0634	1116	52-75	Partly	2-5
4/24/2019	2	-	Feenstra	0635	1140	51-87	0	0-3
5/7/2019	3	-	Feenstra	0615	1016	55-63	Overcast	0-2
5/20/2019	4	1	Feenstra	0635	1034	47-66	Partly	0-9
6/3/2019	5	2	Feenstra	0622	1012	61-73	Overcast-0	0-3
6/18/2019	6	3	Feenstra	0626	1035	61-74	Overcast-0	0-5
7/2/2019	7	4	Feenstra	0622	1005	57-82	0-Partly	0-3
7/12/2019	8	5	Feenstra	0613	1003	63-87	0	0-3
NRMP (2)								
4/14/2019	1	-	Garrett	0625	1100	51-75	Partly	2-4
4/25/2019	2	-	Feenstra	0615	1026	60-84	Partly	0-4
5/11/2019	3	-	Maxwell	0619	1025	53-65	Overast-Cloudy	2-6
5/22/2019	4	-	Maxwell	0609	1028	49-60	Partly	2-12
6/6/2019	5	-	Maxwell	0616	1059	55-77	Overcast-Partly	1-5
6/22/2019	6	-	Maxwell	0610	1012	55-69	Overcast-0	2-10
7/3/2019	7	-	Maxwell	0623	1006	60-77	Partly	3-10
7/17/2019	8	-	Maxwell	0621	1023	61-84	0	2-11
RMDP (1)								
4/11/2019	1	-	Garrett	0635	1100	58-70	0-Cloudy	2-7
4/25/2019	2	-	Maxwell	0630	1100	56-76	Partly	2-4
5/5/2019	3	-	Feenstra	0614	1040	56-65	Overcast-Partly	0-3
5/16/2019	4	1	Feenstra	0640	1148	57-68	Overcast-Cloudy	1-6
6/2/2019	5	2	Feenstra	0617	1036	61-74	Overcast	1-5
6/14/2019	6	3	Feenstra	0623	1059	64-73	Overcast	0-3
6/27/2019	7	4	Feenstra	0609	1008	54-76	0	0-4

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7/9/2019	8	5	Feenstra	0613	1041	54-77	Partly	0-3
RMDP (2)								
4/12/2019	1 (part 1)	-	Garrett	0631	0930	53-71	Partly	3-26
4/13/2019	1 (part 2)	-	Garrett	0625	1100	55-75	Partly	2-4
4/26/2019	2	-	Maxwell	0633	1059	54-75	0	1-5
5/8/2019	3	-	Maxwell	0625	1048	52-77	Overcast-Cloudy	2-8
5/18/2019	4	1	Feenstra	0612	1030	48-76	Partly	0-6
6/5/2019	5	2	Feenstra	0625	1020	61-76	Overcast-0	0-5
6/20/2019	6	3	Feenstra	0614	1001	65-67	Overcast	0-2
7/3/2019	7	4	Feenstra	0614	1004	55-78	Partly	1-4
7/16/2019	8	5	Feenstra	0610	1015	58-91	0	1-3
Castaic Creek								
4/12/2019	1	-	Searcy	0630	1115	56-72	0-Partly	7-13
4/23/2019	2	-	Searcy	0625	1100	57-88	Partly	1-9
5/3/2019	3	-	Searcy	0615	1100	58-74	Partly	1-5
5/15/2019	4	1	Feenstra	0630	1015	60-66	Overcast	0-13
5/28/2019	5	-	Searcy	0550	1110	52-70	0	2-6
6/8/2019	6	2	Feenstra	0625	0932	56-81	0	2-4
6/15/2019	-	3	Feenstra	0611	0929	59-64	Overcast	1-3
6/25/2019	7	4	Feenstra	0613	0936	64-67	Overcast	1-4
7/17/2019	8	-	Searcy	0612	1008	61-84	0	1-7
7/17/2019	-	5	Feenstra	0612	1008	61-84	0	1-7
VenCo (1)								
4/11/2019	1	-	Maxwell	0631	1122	55-72	Partly-Cloudy	3-5
4/23/2019	2	-	Maxwell	0647	1107	55-82	Partly	1-7
5/9/2019	3	-	Maxwell	0611	1040	54-79	Overast-Cloudy	2-4
5/20/2019	4	-	Maxwell	0611	1101	45-61	Partly	1-10
6/4/2019	5	-	Maxwell	0601	1031	51-70	Overcast-0	1-5
6/20/2019	6	-	Maxwell	0600	1003	59-65	Overcast	1-4
7/1/2019	7	-	Maxwell	0611	1004	61-83	0	4-8
7/15/2019	8	-	Maxwell	0603	1023	72-92	0	1-5
VenCo (2)								
4/12/2019	1	-	Maxwell	0650	1054	54-75	Partly	5-12
4/24/2019	2	-	Maxwell	0634	1057	57-77	0	1-6
5/10/2019	3	-	Maxwell	0615	0938	58-62	Overast	1

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5/21/2019	4	-	Maxwell	0625	1100	51-60	0	3-10
6/5/2019	5	-	Maxwell	0615	1100	55-77	Overcast-0	3-7
6/21/2019	6	-	Maxwell	0607	1039	59-63	Overcast	2-8
7/2/2019	7	-	Maxwell	0602	1034	60-80	0	2-10
7/16/2019	8	-	Maxwell	0609	1021	70-89	0	1-4

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Attachment B: Willow Flycatcher detections

Species	Survey Area	Date	Lat	Long	Notes
Willow Flycatcher	RMDP-2	5/18/19	34.415475	-118.655349	Singing in response to recording.
Willow Flycatcher	RMDP-2	5/18/19	34.417312	-118.651432	Singing in response to recording.
Willow Flycatcher	RMDP-2	5/18/19	34.417572	-118.64802	Singing in response to recording.
Willow Flycatcher	RMDP-2	5/18/19	34.418748	-118.638287	Singing in response to recording.
Willow Flycatcher	RMDP-2	5/18/19	34.418822	-118.639472	Singing spontaneously.
Willow Flycatcher	RMDP-2	5/18/19	34.418957	-118.64798	Singing in response to recording. Possibly same as one detected nearby earlier today.
Willow Flycatcher	RMDP-2	5/18/19	34.419005	-118.636622	Singing in response to recording.
Willow Flycatcher	RMDP-2	5/18/19	34.419301	-118.643811	Silent. Foraging.
Willow Flycatcher	NRMP-1	5/20/19	34.432588	-118.616447	Silent. Foraging. Flew in to played recording.
Willow Flycatcher	VenCo-1	5/20/19	34.406539	-118.724545	Singing.
Willow Flycatcher	RMDP-1	6/2/19	34.407321	-118.670973	Singing in response to recording.
Willow Flycatcher	RMDP-2	6/5/19	34.418863	-118.637152	Singing in response to recording.

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Attachment C: Least Bell's Vireo detections

Species	Survey Area	Date	Lat	Long	Territory Label	Notes
Least Bell's Vireo	Castaic Ck	5/3/19	34.43593	-118.622160	CC-A	Singing.
Least Bell's Vireo	Castaic Ck	5/15/19	34.433624	-118.624082	CC-A	Singing.
Least Bell's Vireo	Castaic Ck	5/28/19	34.435846	-118.622173	CC-A	Singing
Least Bell's Vireo	Castaic Ck	6/8/19	34.433636	-118.623854	CC-A	Singing.
Least Bell's Vireo	NRMP-1	4/14/19	34.43087	-118.620196	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	4/24/19	34.430732	-118.620353	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	4/24/19	34.430431	-118.620777	NRMP-1A	Singing. Possibly duplicate from first pass.
Least Bell's Vireo	NRMP-1	5/7/19	34.430277	-118.620635	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	5/20/19	34.430533	-118.620415	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	6/3/19	34.430213	-118.620665	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.430412	-118.620492	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	7/2/19	34.430695	-118.620327	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	7/12/19	34.430371	-118.620313	NRMP-1A	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.431138	-118.619875	NRMP-1A-1	2 fledged juveniles.
Least Bell's Vireo	NRMP-1	4/14/19	34.431868	-118.616376	NRMP-1B	Singing.
Least Bell's Vireo	NRMP-1	4/24/19	34.43113	-118.61853	NRMP-1B	Singing.
Least Bell's Vireo	NRMP-1	6/3/19	34.4309	-118.619251	NRMP-1B	Scolding.
Least Bell's Vireo	NRMP-1	6/18/19	34.431529	-118.619055	NRMP-1B	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.431704	-118.618357	NRMP-1B-1	Begging juvenile(s).
Least Bell's Vireo	NRMP-1	7/12/19	34.432299	-118.615582	NRMP-1B/H	Singing.
Least Bell's Vireo	NRMP-1	4/14/19	34.433804	-118.613544	NRMP-1C	Singing.
Least Bell's Vireo	NRMP-1	4/24/19	34.435068	-118.612491	NRMP-1C	Singing.
Least Bell's Vireo	NRMP-1	5/7/19	34.435123	-118.612553	NRMP-1C	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.434978	-118.613016	NRMP-1C	Singing.
Least Bell's Vireo	NRMP-1	7/12/19	34.435057	-118.614619	NRMP-1C	Singing.
Least Bell's Vireo	NRMP-1	6/3/19	34.43434	-118.615564	NRMP-1C?	2 begging fledglings.
Least Bell's Vireo	NRMP-1	4/24/19	34.429284	-118.620055	NRMP-1D	Singing.
Least Bell's Vireo	NRMP-1	5/7/19	34.429065	-118.620067	NRMP-1D	Singing.
Least Bell's Vireo	NRMP-1	6/3/19	34.429155	-118.620433	NRMP-1D	Singing.
Least Bell's Vireo	NRMP-1	7/2/19	34.428817	-118.620313	NRMP-1D	Singing.
Least Bell's Vireo	NRMP-1	4/24/19	34.436475	-118.612148	NRMP-1E	Singing. Possibly duplicate from first pass.
Least Bell's Vireo	NRMP-1	5/7/19	34.436605	-118.611303	NRMP-1E	Singing.
Least Bell's Vireo	NRMP-1	5/20/19	34.436636	-118.610946	NRMP-1E	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.436679	-118.61073	NRMP-1E	Singing.

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Least Bell's Vireo	NRMP-1	5/7/19	34.435993	-118.61203	NRMP-1F	Singing.
Least Bell's Vireo	NRMP-1	5/20/19	34.43608	-118.612286	NRMP-1F	Singing.
Least Bell's Vireo	NRMP-1	6/3/19	34.436592	-118.611911	NRMP-1F	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.436563	-118.611783	NRMP-1F	Singing.
Least Bell's Vireo	NRMP-1	7/2/19	34.436476	-118.611734	NRMP-1F	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.418648	-118.631008	NRMP-1G	Singing.
Least Bell's Vireo	NRMP-1	6/18/19	34.432017	-118.616249	NRMP-1H	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.436223	-118.609106	NRMP-2A	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.436515	-118.609371	NRMP-2A	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.436392	-118.609868	NRMP-2A	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.436003	-118.60806	NRMP-2B	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.435329	-118.606892	NRMP-2B	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.436125	-118.607746	NRMP-2B	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.434587	-118.60563	NRMP-2B	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.433281	-118.604414	NRMP-2C	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.433405	-118.604029	NRMP-2C	Singing male.
Least Bell's Vireo	NRMP-2	6/6/19	34.433416	-118.603975	NRMP-2C	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.433514	-118.602332	NRMP-2D	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.433522	-118.60158	NRMP-2D	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.433214	-118.602564	NRMP-2D	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.434092	-118.602187	NRMP-2D	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.43433	-118.602558	NRMP-2D	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.433488	-118.602467	NRMP-2D	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.435358	-118.599755	NRMP-2E	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.435475	-118.599713	NRMP-2E	Singing male.Possibly, but I don't think same as 9:03 LBV
Least Bell's Vireo	NRMP-2	6/6/19	34.435447	-118.599565	NRMP-2E	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.435269	-118.599902	NRMP-2E	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.435308	-118.600068	NRMP-2E	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.435442	-118.599328	NRMP-2E	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.435782	-118.599126	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.43562	-118.598683	NRMP-2F	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.435231	-118.598499	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.435965	-118.598504	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.436172	-118.59844	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.435804	-118.598718	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.43636	-118.59785	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.435726	-118.598421	NRMP-2F	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.435251	-118.596943	NRMP-2G	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.43556	-118.596978	NRMP-2G	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.435452	-118.597418	NRMP-2G	Singing.

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Least Bell's Vireo	NRMP-2	7/17/19	34.434858	-118.596519	NRMP-2G	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.433709	-118.595107	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.432929	-118.594395	NRMP-2H	Singing male.
Least Bell's Vireo	NRMP-2	5/22/19	34.432685	-118.594185	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.433052	-118.594114	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.433486	-118.59444	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.43356	-118.594855	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.434158	-118.595477	NRMP-2H	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.43156	-118.594188	NRMP-2I	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.431695	-118.594059	NRMP-2I	Singing male.
Least Bell's Vireo	NRMP-2	5/22/19	34.431795	-118.594155	NRMP-2I	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.431206	-118.59428	NRMP-2I	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.4318	-118.594197	NRMP-2I	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.429504	-118.593914	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.429314	-118.593851	NRMP-2J	Singing male.
Least Bell's Vireo	NRMP-2	5/22/19	34.429242	-118.593852	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.429134	-118.593436	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.429793	-118.594297	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.429427	-118.594187	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.429231	-118.593415	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.429049	-118.593346	NRMP-2J	Singing.
Least Bell's Vireo	NRMP-2	4/14/19	34.429624	-118.593612	NRMP-2K	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.428974	-118.592848	NRMP-2K	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.428823	-118.591416	NRMP-2K	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.428669	-118.591202	NRMP-2K	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.429142	-118.592061	NRMP-2K	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.42874	-118.59159	NRMP-2K	scolding calls
Least Bell's Vireo	NRMP-2	4/14/19	34.426714	-118.587031	NRMP-2L	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.42645	-118.585659	NRMP-2L	Singing.
Least Bell's Vireo	NRMP-2	6/6/19	34.426427	-118.585617	NRMP-2L	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.426443	-118.58709	NRMP-2L	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.425704	-118.585376	NRMP-2L	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.425636	-118.585156	NRMP-2L	moved territory from accross river after fire?
Least Bell's Vireo	NRMP-2	4/25/19	34.432711	-118.599441	NRMP-2M	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.433591	-118.600575	NRMP-2M	Singing.
Least Bell's Vireo	NRMP-2	4/25/19	34.435249	-118.59777	NRMP-2N	Singing male.
Least Bell's Vireo	NRMP-2	6/6/19	34.435496	-118.598138	NRMP-2N	2 countersinging.
Least Bell's Vireo	NRMP-2	6/22/19	34.435322	-118.598327	NRMP-2N	Singing.
Least Bell's Vireo	NRMP-2	7/3/19	34.435474	-118.598871	NRMP-2N	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.435438	-118.598075	NRMP-2N	Singing.

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Least Bell's Vireo	NRMP-2	4/25/19	34.43479	-118.600555	NRMP-2O	Singing male.
Least Bell's Vireo	NRMP-2	4/25/19	34.434425	-118.601137	NRMP-2P	Singing male.
Least Bell's Vireo	NRMP-2	5/11/19	34.434656	-118.601351	NRMP-2P	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.434645	-118.601266	NRMP-2P	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.434236	-118.601742	NRMP-2P	Singing.
Least Bell's Vireo	NRMP-2	7/17/19	34.435339	-118.600993	NRMP-2P	visual.
Least Bell's Vireo	NRMP-2	5/11/19	34.43664	-118.597401	NRMP-2Q	Singing.
Least Bell's Vireo	NRMP-2	5/11/19	34.436366	-118.608515	NRMP-2R	Singing.
Least Bell's Vireo	NRMP-2	6/22/19	34.436224	-118.608031	NRMP-2R	Singing.
Least Bell's Vireo	NRMP-2	5/22/19	34.435975	-118.602189	NRMP-2S	Visual only.
Least Bell's Vireo	RMDP-1	4/11/19	34.403219	-118.681436	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.403873	-118.681281	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.404316	-118.681657	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.404187	-118.682016	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.403768	-118.682279	RMDP-1A	Singing. Begging juveniles.
Least Bell's Vireo	RMDP-1	6/27/19	34.403779	-118.680735	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.403794	-118.681252	RMDP-1A	Singing.
Least Bell's Vireo	RMDP-1	4/11/19	34.405125	-118.674117	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.404761	-118.674052	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.405484	-118.675263	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.405748	-118.675161	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.405231	-118.675737	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.405704	-118.675966	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.405718	-118.675105	RMDP-1B	Singing.
Least Bell's Vireo	RMDP-1	4/11/19	34.406671	-118.674010	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.40637	-118.6739	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.406651	-118.673887	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.406375	-118.67374	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.406267	-118.67417	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.406624	-118.672472	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.406028	-118.674324	RMDP-1C	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.406524	-118.674561	RMDP-1C?	Scolds.
Least Bell's Vireo	RMDP-1	4/11/19	34.407511	-118.672388	RMDP-1D	Singing; counter-singing with RMDP-1C
Least Bell's Vireo	RMDP-1	5/5/19	34.407559	-118.673231	RMDP-1D	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.407818	-118.67306	RMDP-1D	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.406548	-118.673111	RMDP-1D?	Singing.
Least Bell's Vireo	RMDP-1	4/11/19	34.406536	-118.669962	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.407017	-118.670899	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.406628	-118.669812	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.407273	-118.670357	RMDP-1E	Singing.

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Least Bell's Vireo	RMDP-1	6/2/19	34.406258	-118.669912	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.406013	-118.670673	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.406041	-118.669966	RMDP-1E	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.406478	-118.669588	RMDP-1E1	Adult with juv. Adult had yellow band on right leg.
Least Bell's Vireo	RMDP-1	6/27/19	34.406147	-118.669961	RMDP-1E2	Singing.
Least Bell's Vireo	RMDP-1	4/11/19	34.406982	-118.669338	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.406893	-118.668975	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.407274	-118.669303	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.407139	-118.669569	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.406857	-118.66949	RMDP-1F	Singing. Begging young?
Least Bell's Vireo	RMDP-1	6/14/19	34.40688	-118.669266	RMDP-1F	Singing. Begging juveniles.
Least Bell's Vireo	RMDP-1	6/27/19	34.407177	-118.66841	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.407059	-118.668501	RMDP-1F	Singing.
Least Bell's Vireo	RMDP-1	4/11/19	34.407868	-118.667388	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.407303	-118.667049	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.408086	-118.668	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.407893	-118.667204	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.407808	-118.667433	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.407903	-118.66672	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.407816	-118.667326	RMDP-1G	Singing.
Least Bell's Vireo	RMDP-1	4/25/19	34.407783	-118.67436	RMDP-1H	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.40725	-118.674593	RMDP-1H	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.407353	-118.67449	RMDP-1H	Singing. Scolds.
Least Bell's Vireo	RMDP-1	6/2/19	34.407532	-118.674757	RMDP-1H	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.407066	-118.674677	RMDP-1H	Begging fledglings.
Least Bell's Vireo	RMDP-1	4/25/19	34.405331	-118.672285	RMDP-1I	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.405468	-118.671589	RMDP-1I	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.405384	-118.672199	RMDP-1I	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.405916	-118.673358	RMDP-1I?	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.406232	-118.673658	RMDP-1I?	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.409565	-118.663677	RMDP-1N	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.409886	-118.663541	RMDP-1N	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.4097	-118.663098	RMDP-1N	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.40927	-118.663745	RMDP-1N	Singing. Begging juvenile(s).
Least Bell's Vireo	RMDP-1	6/27/19	34.409762	-118.663415	RMDP-1N	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.409742	-118.662942	RMDP-1N	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.409312	-118.664466	RMDP-1O	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.409266	-118.664614	RMDP-1O	Singing.

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Least Bell's Vireo	RMDP-1	6/2/19	34.408929	-118.664599	RMDP-1O	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.409067	-118.664183	RMDP-1O	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.408438	-118.663683	RMDP-1P	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.407803	-118.663269	RMDP-1P	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.407655	-118.663647	RMDP-1P	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.408683	-118.663778	RMDP-1P	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.408558	-118.664016	RMDP-1P	Singing, 2 others also there. Juvs?
Least Bell's Vireo	RMDP-1	7/9/19	34.407714	-118.66382	RMDP-1P	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.407563	-118.668893	RMDP-1Q	2 birds: 1 singing, 1 scolding.
Least Bell's Vireo	RMDP-1	5/16/19	34.407573	-118.668602	RMDP-1Q	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.407609	-118.668406	RMDP-1Q	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.407654	-118.668527	RMDP-1Q	Pair. Singing and chasing.
Least Bell's Vireo	RMDP-1	6/27/19	34.407597	-118.668297	RMDP-1Q	Singing.
Least Bell's Vireo	RMDP-1	5/5/19	34.407242	-118.670558	RMDP-1R	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.407115	-118.666324	RMDP-1R	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.407322	-118.664443	RMDP-1R	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.407058	-118.664667	RMDP-1S	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.40294	-118.685601	RMDP-1T	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.402787	-118.685825	RMDP-1T	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.404422	-118.679452	RMDP-1U	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.404015	-118.679118	RMDP-1U	Singing.
Least Bell's Vireo	RMDP-1	7/9/19	34.403752	-118.680222	RMDP-1U	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.404737	-118.673204	RMDP-1V	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.405426	-118.673885	RMDP-1V	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.409182	-118.665076	RMDP-1W	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.407381	-118.669499	RMDP-1X	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.405045	-118.67835	RMDP-1Y	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.415307	-118.653849	RMDP-2A	Singing.
Least Bell's Vireo	RMDP-2	4/26/19	34.415695	-118.653714	RMDP-2A	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.415666	-118.65376	RMDP-2A	Singing.
Least Bell's Vireo	RMDP-2	7/3/19	34.41585	-118.653322	RMDP-2A	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.415621	-118.653567	RMDP-2A	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.414273	-118.653555	RMDP-2A?	Singing. Begging juveniles.
Least Bell's Vireo	RMDP-2	4/13/19	34.415127	-118.654404	RMDP-2B	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.414308	-118.655583	RMDP-2B	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.414618	-118.654379	RMDP-2B	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.415141	-118.65473	RMDP-2B	Singing plus a 2nd scolding bird.
Least Bell's Vireo	RMDP-2	4/13/19	34.417063	-118.651283	RMDP-2C	Singing.

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Least Bell's Vireo	RMDP-2	5/8/19	34.416321	-118.651904	RMDP-2C	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.416197	-118.652273	RMDP-2C	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.416793	-118.651061	RMDP-2C	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.416871	-118.651694	RMDP-2C	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.417251	-118.65085	RMDP-2D	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.417068	-118.650476	RMDP-2D	Pair.
Least Bell's Vireo	RMDP-2	5/18/19	34.417197	-118.650021	RMDP-2D	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.417125	-118.650529	RMDP-2D	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.417063	-118.650847	RMDP-2D	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.41713	-118.651011	RMDP-2D	Singing.
Least Bell's Vireo	RMDP-2	4/12/19	34.412667	-118.659424	RMDP-2E	Singing.
Least Bell's Vireo	RMDP-2	4/12/19	34.412621	-118.659984	RMDP-2F	Singing.
Least Bell's Vireo	RMDP-2	4/26/19	34.412993	-118.659755	RMDP-2F	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.418054	-118.649765	RMDP-2G	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.418225	-118.64932	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	4/26/19	34.418042	-118.649103	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.418226	-118.649276	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.417985	-118.649633	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.418115	-118.649193	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.418042	-118.649707	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.418087	-118.649145	RMDP-2H	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.419447	-118.647977	RMDP-2I	One singing, one giving 'ch-ch-ch' calls
Least Bell's Vireo	RMDP-2	4/26/19	34.419445	-118.6478	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.419355	-118.646811	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.419423	-118.64691	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.419508	-118.64722	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.419393	-118.648042	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.419514	-118.647475	RMDP-2I	Singing.
Least Bell's Vireo	RMDP-2	4/12/19	34.412318	-118.659579	RMDP-2J	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.411979	-118.659054	RMDP-2J	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.411980	-118.659511	RMDP-2J	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.412138	-118.659218	RMDP-2J	Singing.
Least Bell's Vireo	RMDP-2	7/3/19	34.412484	-118.659397	RMDP-2J	Singing.
Least Bell's Vireo	RMDP-2	4/12/19	34.412669	-118.659229	RMDP-2K	Singing.
Least Bell's Vireo	RMDP-2	4/13/19	34.419314	-118.638815	RMDP-2L	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.418965	-118.638732	RMDP-2L	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.419062	-118.638399	RMDP-2L	Singing.
Least Bell's Vireo	RMDP-2	4/26/19	34.413581	-118.658361	RMDP-2M	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.413603	-118.658669	RMDP-2M	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.414316	-118.656255	RMDP-2M?	Singing.

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Least Bell's Vireo	RMDP-2	4/26/19	34.409493	-118.662418	RMDP-2N	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.409644	-118.662408	RMDP-2N	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.40906	-118.662461	RMDP-2N	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.409343	-118.66266	RMDP-2N	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.409676	-118.662359	RMDP-2N	Singing. Begging juveniles.
Least Bell's Vireo	RMDP-1	6/14/19	34.409526	-118.662295	RMDP-2N	Pair at nest. Incubating eggs or very small young.
Least Bell's Vireo	RMDP-2	6/20/19	34.409526	-118.662295	RMDP-2N	Pair. One incubating a nest.
Least Bell's Vireo	RMDP-1	6/27/19	34.409526	-118.662295	RMDP-2N	Nest with small chicks.
Least Bell's Vireo	RMDP-2	7/1/19	34.409566	-118.662551	RMDP-2N	Singing.
Least Bell's Vireo	RMDP-2	4/26/19	34.418486	-118.648254	RMDP-2O	Singing.
Least Bell's Vireo	RMDP-2	5/8/19	34.418627	-118.64826	RMDP-2O	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.419166	-118.648231	RMDP-2O	Pair. One singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.419202	-118.642117	RMDP-2P	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.419571	-118.642354	RMDP-2P	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.419178	-118.644257	RMDP-2Q	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.418884	-118.643745	RMDP-2Q	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.410996	-118.660955	RMDP-2R	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.411169	-118.660857	RMDP-2R	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.411209	-118.66075	RMDP-2R	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.410617	-118.660947	RMDP-2R	Family group. 2+ birds.
Least Bell's Vireo	RMDP-2	5/18/19	34.410323	-118.66187	RMDP-2S	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.410364	-118.661807	RMDP-2S	Singing. Scolding.
Least Bell's Vireo	RMDP-2	6/20/19	34.410231	-118.661652	RMDP-2S	Singing.
Least Bell's Vireo	RMDP-2	7/3/19	34.410337	-118.661953	RMDP-2S	Singing.
Least Bell's Vireo	RMDP-2	7/1/19	34.410255	-118.661877	RMDP-2S	Singing.
Least Bell's Vireo	RMDP-2	5/18/19	34.41014	-118.66219	RMDP-2T	Singing.
Least Bell's Vireo	RMDP-2	6/5/19	34.410043	-118.662391	RMDP-2T	Singing.
Least Bell's Vireo	RMDP-2	6/20/19	34.410167	-118.661796	RMDP-2T	Scolds.
Least Bell's Vireo	VenCo-1	4/11/19	34.405493	-118.722103	VenCo-1A	Singing
Least Bell's Vireo	VenCo-1	4/23/19	34.405559	-118.722091	VenCo-1A	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.40474	-118.722052	VenCo-1A	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.405073	-118.721941	VenCo-1A	A pair scolding and chasing a CASJ
Least Bell's Vireo	VenCo-1	6/4/19	34.405255	-118.721925	VenCo-1A	Singing.
Least Bell's Vireo	VenCo-1	6/20/19	34.404785	-118.72195	VenCo-1A	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.405166	-118.722086	VenCo-1A	Singing.
Least Bell's Vireo	VenCo-1	4/11/19	34.406015	-118.723563	VenCo-1B	Singing

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Least Bell's Vireo	VenCo-1	4/23/19	34.405842	-118.723453	VenCo-1B	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.40579	-118.723483	VenCo-1B	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.405779	-118.723477	VenCo-1B	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.406656	-118.724856	VenCo-1B	Singing.
Least Bell's Vireo	VenCo-1	6/20/19	34.407051	-118.725613	VenCo-1B	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.406982	-118.725569	VenCo-1B	2 birds singing.
Least Bell's Vireo	VenCo-1	4/11/19	34.407537	-118.726018	VenCo-1C	Singing
Least Bell's Vireo	VenCo-1	4/23/19	34.406965	-118.725429	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.407434	-118.725039	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.407475	-118.7267	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.406872	-118.725343	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.407718	-118.72522	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.407974	-118.725574	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	6/20/19	34.407798	-118.725572	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.407999	-118.725731	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.4076	-118.725006	VenCo-1C	Singing.
Least Bell's Vireo	VenCo-1	4/11/19	34.408322	-118.727468	VenCo-1D	Singing
Least Bell's Vireo	VenCo-1	5/9/19	34.407992	-118.727916	VenCo-1D	2 birds countersinging.
Least Bell's Vireo	VenCo-1	5/20/19	34.407837	-118.727998	VenCo-1D	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.408573	-118.727831	VenCo-1D	Pair. Visual and both calling/scolding.
Least Bell's Vireo	VenCo-1	6/20/19	34.407681	-118.727317	VenCo-1D	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.407791	-118.727787	VenCo-1D	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.408362	-118.726591	VenCo-1D?	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.408554	-118.727503	VenCo-1D?	Singing.
Least Bell's Vireo	VenCo-1	4/11/19	34.407745	-118.730729	VenCo-1E	Singing
Least Bell's Vireo	VenCo-1	5/9/19	34.407441	-118.731956	VenCo-1E	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.407443	-118.731615	VenCo-1E	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.407638	-118.731327	VenCo-1E	Singing.

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Least Bell's Vireo	VenCo-1	6/20/19	34.407446	-118.731811	VenCo-1E	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.407441	-118.731688	VenCo-1E	Singing.
Least Bell's Vireo	VenCo-1	4/11/19	34.406837	-118.732942	VenCo-1F	Singing.
Least Bell's Vireo	VenCo-1	4/23/19	34.406459	-118.733114	VenCo-1F	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.406613	-118.733009	VenCo-1F	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.406395	-118.732989	VenCo-1F	Singing.
Least Bell's Vireo	VenCo-1	4/23/19	34.404992	-118.721164	VenCo-1G	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.404917	-118.720416	VenCo-1G	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.404968	-118.720374	VenCo-1G	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.404916	-118.720368	VenCo-1G	Singing.
Least Bell's Vireo	VenCo-1	4/23/19	34.406944	-118.723446	VenCo-1H	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.406688	-118.723605	VenCo-1H	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.406434	-118.722782	VenCo-1H	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.401889	-118.716005	VenCo-1I	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.40175	-118.716052	VenCo-1I	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.402832	-118.713417	VenCo-1J	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.406335	-118.732797	VenCo-1J	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.399946	-118.713738	VenCo-1K	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.399588	-118.713448	VenCo-1K	Singing.
Least Bell's Vireo	VenCo-1	5/9/19	34.403405	-118.72211	VenCo-1L	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.403877	-118.722099	VenCo-1L	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.407579	-118.731047	VenCo-1M	Singing.
Least Bell's Vireo	VenCo-1	6/20/19	34.407666	-118.731126	VenCo-1M	Singing.
Least Bell's Vireo	VenCo-1	5/20/19	34.40774	-118.729345	VenCo-1N	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.407869	-118.729178	VenCo-1N	Singing.
Least Bell's Vireo	VenCo-1	6/20/19	34.407748	-118.729883	VenCo-1N	Singing.
Least Bell's Vireo	VenCo-1	7/1/19	34.407891	-118.729356	VenCo-1N	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.407726	-118.72955	VenCo-1N	Singing.

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Least Bell's Vireo	VenCo-1	5/20/19	34.405732	-118.73371	VenCo-1O	Singing.
Least Bell's Vireo	VenCo-1	6/4/19	34.405557	-118.734169	VenCo-1O	Singing.
Least Bell's Vireo	VenCo-1	7/15/19	34.404962	-118.735046	VenCo-1O	Singing.
Least Bell's Vireo	VenCo-2	4/12/19	34.40338	-118.691765	VenCo-2A	Singing.
Least Bell's Vireo	RMDP-1	5/16/19	34.403547	-118.690059	VenCo-2A	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.403038	-118.691675	VenCo-2A	Singing.
Least Bell's Vireo	RMDP-1	6/2/19	34.403507	-118.690022	VenCo-2A	Singing.
Least Bell's Vireo	RMDP-1	6/14/19	34.40336	-118.689797	VenCo-2A	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.403258	-118.691761	VenCo-2A	Singing.
Least Bell's Vireo	RMDP-1	6/27/19	34.402902	-118.688443	VenCo-2A	Singing, with a fledged juv.
Least Bell's Vireo	RMDP-1	7/9/19	34.403439	-118.689803	VenCo-2A	Singing.
Least Bell's Vireo	VenCo-2	4/12/19	34.40173	-118.700335	VenCo-2B	Singing.
Least Bell's Vireo	VenCo-2	4/24/19	34.401616	-118.701776	VenCo-2B	Singing.
Least Bell's Vireo	VenCo-2	5/10/19	34.401523	-118.700989	VenCo-2B	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.401489	-118.702301	VenCo-2B	Singing.
Least Bell's Vireo	VenCo-2	4/12/19	34.400138	-118.704709	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	4/24/19	34.400817	-118.703615	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	5/10/19	34.400615	-118.70445	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	5/21/19	34.400471	-118.704604	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	5/21/19	34.401217	-118.703513	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.400652	-118.704512	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.400402	-118.704621	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	7/16/19	34.400411	-118.704789	VenCo-2C	Singing.
Least Bell's Vireo	VenCo-2	5/10/19	34.399445	-118.706602	VenCo-2D	Singing.
Least Bell's Vireo	VenCo-2	5/21/19	34.39963	-118.706071	VenCo-2D	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.399386	-118.704759	VenCo-2D	Singing.
Least Bell's Vireo	VenCo-2	7/16/19	34.399081	-118.704563	VenCo-2D	Singing.
Least Bell's Vireo	VenCo-2	5/21/19	34.402753	-118.692787	VenCo-2E	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.403101	-118.692906	VenCo-2E	Singing.
Least Bell's Vireo	VenCo-	6/21/19	34.402815	-118.692904	VenCo-2E	Singing.

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Least Bell's Vireo	VenCo-2	7/16/19	34.402707	-118.692715	VenCo-2E	Singing.
Least Bell's Vireo	VenCo-2	5/21/19	34.401461	-118.69776	VenCo-2F	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.401522	-118.697619	VenCo-2F	Singing.
Least Bell's Vireo	VenCo-2	6/5/19	34.398028	-118.704261	VenCo-2G	Singing.
Least Bell's Vireo	VenCo-2	6/21/19	34.398148	-118.704034	VenCo-2G	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.398741	-118.704083	VenCo-2G	Singing.
Least Bell's Vireo	VenCo-2	7/16/19	34.398317	-118.705121	VenCo-2G	Singing.
Least Bell's Vireo	VenCo-2	6/21/19	34.401814	-118.694794	VenCo-2H	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.401772	-118.694925	VenCo-2H	Singing.
Least Bell's Vireo	VenCo-2	7/16/19	34.401715	-118.695103	VenCo-2H	Singing.
Least Bell's Vireo	VenCo-2	6/21/19	34.396807	-118.705671	VenCo-2I	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.397467	-118.704746	VenCo-2I	2 birds singing.
Least Bell's Vireo	VenCo-2	7/16/19	34.397009	-118.704668	VenCo-2I	Singing.
Least Bell's Vireo	VenCo-2	7/2/19	34.396281	-118.70611	VenCo-2J	Singing.

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Attachment D: Yellow Warbler detections

Species	Survey Area	Date	Lat	Long	Notes
Yellow Warbler	Castaic Ck	5/3/19	34.43621	-118.62173	Singing.
Yellow Warbler	Castaic Ck	5/3/19	34.4315	-118.62633	Singing.
Yellow Warbler	Castaic Ck	5/3/19	34.42889	-118.62804	Singing.
Yellow Warbler	Castaic Ck	5/15/19	34.430891	-118.626682	Singing.
Yellow Warbler	Castaic Ck	5/15/19	34.432404	-118.625995	Singing.
Yellow Warbler	Castaic Ck	5/15/19	34.422644	-118.624605	Singing.
Yellow Warbler	Castaic Ck	5/15/19	34.434682	-118.622895	Singing.
Yellow Warbler	Castaic Ck	5/15/19	34.443079	-118.613219	Male.
Yellow Warbler	Castaic Ck	5/28/19	34.443283	-118.616422	Singing
Yellow Warbler	Castaic Ck	5/28/19	34.434225	-118.623627	Singing
Yellow Warbler	Castaic Ck	5/28/19	34.431648	-118.626024	Singing
Yellow Warbler	Castaic Ck	6/8/19	34.431508	-118.626085	Singing.
Yellow Warbler	Castaic Ck	6/15/19	34.434576	-118.623119	Singing.
Yellow Warbler	Castaic Ck	6/15/19	34.43297	-118.625497	Singing.
Yellow Warbler	Castaic Ck	6/25/19	34.440582	-118.616104	Singing.
Yellow Warbler	Castaic Ck	7/17/19	34.44184	-118.6166	Male
Yellow Warbler	Castaic Ck	7/17/19	34.44184	-118.6166	Female
Yellow Warbler	Castaic Ck	7/17/19	34.44516	-118.61564	Male
Yellow Warbler	Castaic Ck	7/17/19	34.44552	-118.61653	Female
Yellow Warbler	NRMP-1	4/14/19	34.418769	-118.634344	Singing.
Yellow Warbler	NRMP-1	4/14/19	34.425831	-118.6229	Singing.
Yellow Warbler	NRMP-1	4/14/19	34.429866	-118.620334	2 males countersinging.
Yellow Warbler	NRMP-1	4/14/19	34.431511	-118.619307	Singing.
Yellow Warbler	NRMP-1	4/24/19	34.43669	-118.609707	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.436486	-118.610796	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.436438	-118.611266	Female. Calling.
Yellow Warbler	NRMP-1	4/24/19	34.436135	-118.611819	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.434147	-118.613256	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.433457	-118.614589	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.432477	-118.616126	Singing male.

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Yellow Warbler	NRMP-1	4/24/19	34.431958	-118.617678	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.431367	-118.618508	Calling. Unsexed.
Yellow Warbler	NRMP-1	4/24/19	34.431462	-118.619127	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.430388	-118.620602	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.430097	-118.620278	Calling. Unsexed.
Yellow Warbler	NRMP-1	4/24/19	34.429272	-118.620509	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.425942	-118.622787	Calling. Male.
Yellow Warbler	NRMP-1	4/24/19	34.420312	-118.626758	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.41956	-118.628511	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.418602	-118.631706	Singing male.
Yellow Warbler	NRMP-1	4/24/19	34.418828	-118.633055	Male and female.
Yellow Warbler	NRMP-1	5/7/19	34.436524	-118.610162	Calling. Unsexed.
Yellow Warbler	NRMP-1	5/7/19	34.436504	-118.610705	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.436452	-118.611576	Calling. Unsexed.
Yellow Warbler	NRMP-1	5/7/19	34.436183	-118.611897	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.435532	-118.612197	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.435292	-118.613356	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.433321	-118.61477	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.431751	-118.616964	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.432131	-118.617404	Pair.
Yellow Warbler	NRMP-1	5/7/19	34.430863	-118.619267	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.430543	-118.619806	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.429135	-118.620272	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.428077	-118.620648	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.427269	-118.621733	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.426222	-118.622701	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.42475	-118.623217	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.423084	-118.623745	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.419902	-118.627822	Singing.
Yellow Warbler	NRMP-1	5/7/19	34.419085	-118.634247	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.436564	-118.610296	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.436289	-118.610923	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.436428	-118.611702	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.434926	-118.61225	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.433046	-118.615202	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.432127	-118.616375	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.431765	-118.617978	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.43118	-118.617861	Unsexed. Calling.
Yellow Warbler	NRMP-1	5/20/19	34.430635	-118.619166	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.430026	-118.620309	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.427528	-118.622167	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.428302	-118.620632	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.4270366	-118.622069	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.426046	-118.622689	Singing.

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Yellow Warbler	NRMP-1	5/20/19	34.423288	-118.623949	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.422432	-118.62357	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.419622	-118.628223	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.41855	-118.631452	Singing.
Yellow Warbler	NRMP-1	5/20/19	34.418495	-118.632806	Unsexed. Calling.
Yellow Warbler	NRMP-1	5/20/19	34.419105	-118.634893	Unsexed. Calling.
Yellow Warbler	NRMP-1	6/3/19	34.436412	-118.610768	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.436227	-118.611905	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.434171	-118.612844	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.432943	-118.615598	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.431854	-118.61709	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.429955	-118.620433	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.429104	-118.620214	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.428407	-118.620295	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.427979	-118.62104	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.42705	-118.622059	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.426806	-118.622298	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.426066	-118.622849	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.419507	-118.634222	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.418843	-118.633589	Singing.
Yellow Warbler	NRMP-1	6/3/19	34.420504	-118.627147	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.419335	-118.634874	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.43671	-118.610007	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.436459	-118.611491	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.432533	-118.616607	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.431788	-118.61805	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.431357	-118.618058	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.431065	-118.618882	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.430388	-118.62045	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.429159	-118.620394	Calling.
Yellow Warbler	NRMP-1	6/18/19	34.428341	-118.620281	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.426001	-118.622828	Calling.
Yellow Warbler	NRMP-1	6/18/19	34.424567	-118.6228	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.420764	-118.626201	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.420056	-118.627178	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.41933	-118.62824	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.418753	-118.629416	Singing.
Yellow Warbler	NRMP-1	6/18/19	34.418408	-118.632055	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.436259	-118.611475	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.436033	-118.611945	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.431328	-118.619679	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.430096	-118.620431	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.429672	-118.620325	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.42664	-118.622477	Singing.

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Yellow Warbler	NRMP-1	7/2/19	34.426911	-118.622307	Female.
Yellow Warbler	NRMP-1	7/2/19	34.42639	-118.622853	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.420289	-118.626542	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.418485	-118.630493	Calling.
Yellow Warbler	NRMP-1	7/2/19	34.4184	-118.632235	Singing.
Yellow Warbler	NRMP-1	7/2/19	34.419211	-118.633638	1 singing. 1 calling.
Yellow Warbler	NRMP-1	7/12/19	34.431865	-118.618085	Singing.
Yellow Warbler	NRMP-1	7/12/19	34.430924	-118.618803	Singing.
Yellow Warbler	NRMP-1	7/12/19	34.430798	-118.619966	Singing.
Yellow Warbler	NRMP-1	7/12/19	34.43647	-118.610208	Calling.
Yellow Warbler	NRMP-2	4/14/19	34.436076	-118.608927	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.434018	-118.605532	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.433816	-118.601796	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.435309	-118.599961	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.435715	-118.598936	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.435751	-118.597736	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.435085	-118.59717	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.43238	-118.59412	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.431921	-118.594089	Singing, with female chipping at end of song.
Yellow Warbler	NRMP-2	4/14/19	34.429767	-118.593795	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.428443	-118.591818	Singing.
Yellow Warbler	NRMP-2	4/14/19	34.426527	-118.587047	Singing.
Yellow Warbler	NRMP-2	4/25/19	34.433415	-118.604683	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.433121	-118.603683	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.433092	-118.602639	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.433258	-118.602639	2: 1 singing male, 1 calling other
Yellow Warbler	NRMP-2	4/25/19	34.432948	-118.600623	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.432861	-118.600691	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	34.432821	-118.600287	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	-118.432637	34.599097	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.432787	-118.597276	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.432498	-118.595338	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.431284	-118.594141	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.43009	-118.594403	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.429743	-118.594036	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.429168	-118.593518	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.428925	-118.593046	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.428836	-118.592488	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.428712	-118.5915	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.428447	-118.59111	Singing male.

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Yellow Warbler	NRMP-2	4/25/19	34.428376	-118.5906	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	34.427615	-118.589559	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.42685	-118.587687	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.426403	-118.587204	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.425872	-118.585187	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.432929	-118.594395	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	34.433639	-118.594306	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.434122	-118.595999	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.435015	-118.596089	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.435167	-118.597182	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	34.435443	-118.598604	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.435481	-118.598762	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.43562	-118.598683	Calling. Unsexed.
Yellow Warbler	NRMP-2	4/25/19	34.435296	-118.599874	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.434645	-118.60118	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.433955	-118.602107	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.433509	-118.602344	Male.
Yellow Warbler	NRMP-2	4/25/19	34.434609	-118.60629	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.435079	-118.607153	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.436383	-118.607782	Singing male.
Yellow Warbler	NRMP-2	4/25/19	34.436443	-118.609307	Singing male.
Yellow Warbler	NRMP-2	5/11/19	34.436591	-118.605488	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.435241	-118.60135	3 birds all together, calling.
Yellow Warbler	NRMP-2	5/11/19	34.435599	-118.599312	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.435521	-118.596351	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.43472	-118.595861	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.433754	-118.595246	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.432587	-118.594336	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.430291	-118.593805	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.428794	-118.592468	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.428662	-118.592543	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.428351	-118.59087	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.427157	-118.588399	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.426615	-118.587447	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.425617	-118.585141	2 birds. male and female. pair?
Yellow Warbler	NRMP-2	5/11/19	34.435311	-118.598126	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.435415	-118.599456	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.43478	-118.60108	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.433492	-118.602696	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.433343	-118.603109	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.433147	-118.604254	Singing.
Yellow Warbler	NRMP-2	5/11/19	34.435618	-118.607366	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.434125	-118.595313	Singing.

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Yellow Warbler	NRMP-2	5/22/19	34.43251	-118.594363	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.430002	-118.594169	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.429042	-118.59224	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.42867	-118.590883	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.426758	-118.587619	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.425781	-118.585567	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.435126	-118.596107	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.433138	-118.603626	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.435631	-118.607299	Singing.
Yellow Warbler	NRMP-2	5/22/19	34.436438	-118.609204	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.435587	-118.599554	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.434602	-118.595864	2 BIRDS COUNTERSINGING
Yellow Warbler	NRMP-2	6/6/19	34.433305	-118.594549	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.430847	-118.594485	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.428971	-118.593004	2 birds countersinging
Yellow Warbler	NRMP-2	6/6/19	34.427674	-118.588976	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.426624	-118.587256	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.435125	-118.597454	3 singing from one spot.
Yellow Warbler	NRMP-2	6/6/19	34.434512	-118.601995	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.4333	-118.603789	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.43485	-118.60613	Singing.
Yellow Warbler	NRMP-2	6/6/19	34.435602	-118.607311	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.434868	-118.6005	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.435109	-118.596008	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.433728	-118.594886	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.432566	-118.593903	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.429667	-118.593947	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.429089	-118.592562	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.426632	-118.587372	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.435757	-118.59817	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.433523	-118.603201	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.433234	-118.603095	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.433239	-118.605307	Singing.
Yellow Warbler	NRMP-2	6/22/19	34.436436	-118.608366	Female, calling.
Yellow Warbler	NRMP-2	7/3/19	34.434715	-118.601505	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.433503	-118.594716	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.430479	-118.594615	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.428672	-118.592209	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.426615	-118.587265	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.435373	-118.597455	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.435466	-118.599255	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.43551	-118.600039	Singing.

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Yellow Warbler	NRMP-2	7/3/19	34.434519	-118.60154	Singing.
Yellow Warbler	NRMP-2	7/3/19	34.433234	-118.603836	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.435057	-118.601873	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.432497	-118.59416	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.429972	-118.594123	Calling
Yellow Warbler	NRMP-2	7/17/19	34.429067	-118.592531	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.428731	-118.591658	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.435524	-118.598655	Singing.
Yellow Warbler	NRMP-2	7/17/19	34.433961	-118.602304	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.403519	-118.68984	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.403366	-118.681013	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.405052	-118.674067	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.405274	-118.674359	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.406476	-118.673749	Singing.
Yellow Warbler	RMDP-1	4/11/19	34.406547	-118.669946	Singing male, with female chipping at end of song.
Yellow Warbler	RMDP-1	4/11/19	34.407901	-118.667965	Singing.
Yellow Warbler	RMDP-1	4/25/19	34.405995	-118.674549	Singing.
Yellow Warbler	RMDP-1	4/25/19	34.40749	-118.673486	3 birds together calling/chasing
Yellow Warbler	RMDP-1	4/25/19	34.407044	-118.669384	2 birds countersinging
Yellow Warbler	RMDP-1	4/25/19	34.408305	-118.663211	2 birds calling.
Yellow Warbler	RMDP-1	4/25/19	34.405559	-118.671409	Singing.
Yellow Warbler	RMDP-1	4/25/19	34.402701	-118.686603	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.409166	-118.664959	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.409381	-118.666472	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.40768	-118.667912	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407593	-118.668105	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407561	-118.667935	Calling. Unsexed.
Yellow Warbler	RMDP-1	5/5/19	34.407223	-118.669447	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.40696	-118.669643	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407364	-118.671432	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.406694	-118.671389	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407247	-118.672225	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.4063	-118.672656	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.406395	-118.673139	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.406072	-118.675035	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.405688	-118.6749	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.405632	-118.675631	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.40559	-118.67638	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.405677	-118.676766	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.40552	-118.677222	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.405319	-118.677396	Singing.

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Yellow Warbler	RMDP-1	5/5/19	34.405339	-118.678255	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.405041	-118.680556	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.404735	-118.681282	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.403375	-118.682256	Calling. Unsexed.
Yellow Warbler	RMDP-1	5/5/19	34.403579	-118.683231	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.404014	-118.683261	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.403245	-118.685661	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.403799	-118.688746	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.403442	-118.689803	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.403457	-118.690291	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.408643	-118.662916	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407573	-118.663709	Singing.
Yellow Warbler	RMDP-1	5/5/19	34.407228	-118.665553	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.409063	-118.664893	2 birds: 1 singing, 1 calling.
Yellow Warbler	RMDP-1	5/16/19	34.407573	-118.668192	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.407361	-118.669466	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.407437	-118.669665	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406773	-118.669161	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406591	-118.669483	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406397	-118.669762	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406481	-118.669907	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406997	-118.671445	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406674	-118.67137	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406446	-118.673181	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406831	-118.673324	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.406157	-118.674256	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405999	-118.674387	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405271	-118.674581	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405482	-118.676019	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405436	-118.67696	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405467	-118.677481	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405387	-118.678732	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.405378	-118.679827	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403857	-118.682504	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.404028	-118.683355	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403988	-118.685251	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403005	-118.686954	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.404493	-118.678243	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.40318	-118.688812	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403318	-118.68918	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403859	-118.688924	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.403529	-118.689812	Singing.
Yellow Warbler	RMDP-1	5/16/19	34.40788	-118.674978	Singing.

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Yellow Warbler	RMDP-1	5/16/19	34.408965	-118.662805	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.408814	-118.662638	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.409535	-118.662193	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.409689	-118.662939	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.409053	-118.663969	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.408603	-118.663986	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.408836	-118.665066	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.4086	-118.665603	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.408671	-118.666322	Calling.
Yellow Warbler	RMDP-1	6/2/19	34.408183	-118.666674	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.40761	-118.667297	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.407282	-118.668414	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.406598	-118.669634	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.406005	-118.670448	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405599	-118.670969	Calling.
Yellow Warbler	RMDP-1	6/2/19	34.405582	-118.671544	Calling.
Yellow Warbler	RMDP-1	6/2/19	34.405464	-118.671728	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405691	-118.672378	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.404933	-118.674017	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405549	-118.674731	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405632	-118.675002	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405624	-118.675846	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.405088	-118.677763	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.404725	-118.678991	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.403772	-118.680274	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.40369	-118.682029	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.40295	-118.685825	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.402609	-118.686987	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.402871	-118.68851	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.402943	-118.688996	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.407118	-118.673158	Singing.
Yellow Warbler	RMDP-1	6/2/19	34.407464	-118.665126	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.409429	-118.662341	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.409765	-118.662231	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.409295	-118.663137	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.408538	-118.664083	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.408915	-118.665456	Female.
Yellow Warbler	RMDP-1	6/14/19	34.408408	-118.666349	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.407633	-118.667855	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.407121	-118.668594	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.406738	-118.669526	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405895	-118.670068	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405374	-118.671908	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405024	-118.673343	2 singing. 1 calling.

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Yellow Warbler	RMDP-1	6/14/19	34.405293	-118.674166	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405424	-118.674803	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405757	-118.675611	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405082	-118.676665	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.405288	-118.676996	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.404808	-118.682279	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.403827	-118.68355	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.404067	-118.683381	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.403367	-118.685318	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.403152	-118.685349	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.402808	-118.688053	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.402894	-118.688471	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.402991	-118.689623	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.406754	-118.673149	Singing.
Yellow Warbler	RMDP-1	6/14/19	34.407109	-118.665444	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.409357	-118.662529	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.409313	-118.663354	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.408823	-118.663796	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.409046	-118.664866	Calling.
Yellow Warbler	RMDP-1	6/27/19	34.408846	-118.665754	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.408027	-118.667251	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.40719	-118.668174	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.407054	-118.669403	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.406037	-118.66977	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405339	-118.671128	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405556	-118.671434	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405285	-118.672664	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405202	-118.674056	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405311	-118.674581	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405413	-118.674731	Adult feeding two fledglings.
Yellow Warbler	RMDP-1	6/27/19	34.405679	-118.675879	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.404855	-118.676896	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.405169	-118.677108	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.404551	-118.678725	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.404886	-118.678513	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.403769	-118.681747	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.403547	-118.682089	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.40307	-118.685325	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.402911	-118.68826	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.402893	-118.688915	Singing.
Yellow Warbler	RMDP-1	6/27/19	34.406907	-118.672821	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.409536	-118.662926	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.408994	-118.664955	Juvenile.
Yellow Warbler	RMDP-1	7/9/19	34.407936	-118.667128	Singing.

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Yellow Warbler	RMDP-1	7/9/19	34.40721	-118.668136	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.407657	-118.668614	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.407068	-118.668914	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.40571	-118.670513	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.405488	-118.674708	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.405139	-118.674531	Calling.
Yellow Warbler	RMDP-1	7/9/19	34.40513	-118.676044	Adult and calling fledgling.
Yellow Warbler	RMDP-1	7/9/19	34.404494	-118.678861	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.403837	-118.684015	Calling.
Yellow Warbler	RMDP-1	7/9/19	34.402891	-118.688347	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.403535	-118.689813	Singing.
Yellow Warbler	RMDP-1	7/9/19	34.407676	-118.673155	Calling.
Yellow Warbler	RMDP-1	7/9/19	34.407057	-118.666148	Singing.
Yellow Warbler	RMDP-2	4/12/19	34.412775	-118.659237	Singing.
Yellow Warbler	RMDP-2	4/12/19	34.410737	-118.66101	Singing.
Yellow Warbler	RMDP-2	4/12/19	34.411385	-118.660135	Singing.
Yellow Warbler	RMDP-2	4/12/19	34.412699	-118.659098	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.4161	-118.653774	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.417259	-118.650306	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.417128	-118.649511	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.419416	-118.644941	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.419554	-118.642959	Singing.
Yellow Warbler	RMDP-2	4/13/19	34.418641	-118.635654	Singing.
Yellow Warbler	RMDP-2	4/26/19	34.416825	-118.652313	Singing.
Yellow Warbler	RMDP-2	4/26/19	34.417956	-118.650188	Singing.
Yellow Warbler	RMDP-2	4/26/19	34.411953	-118.659292	Singing.
Yellow Warbler	RMDP-2	4/26/19	34.410834	-118.660805	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.417966	-118.65667	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.415632	-118.654019	Male and female. Pair?
Yellow Warbler	RMDP-2	5/8/19	34.416518	-118.651929	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.417776	-118.649685	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.417986	-118.649085	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.413888	-118.65653	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.411156	-118.660153	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.408335	-118.663241	Singing.
Yellow Warbler	RMDP-2	5/8/19	34.415138	-118.656093	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.419303	-118.634738	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.418834	-118.635467	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.419204	-118.636887	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.419213	-118.636362	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.418961	-118.63833	Calling. Unsexed.
Yellow Warbler	RMDP-2	5/18/19	34.419394	-118.639043	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.419558	-118.639692	Singing.

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Yellow Warbler	RMDP-2	5/18/19	34.419593	-118.640236	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41945	-118.641758	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41893	-118.644047	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41912	-118.644385	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.418939	-118.645539	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417981	-118.647999	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417562	-118.64841	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417606	-118.648682	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417539	-118.64923	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41721	-118.6499	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417859	-118.650082	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.417169	-118.651432	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.416841	-118.651912	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.415994	-118.653726	2 birds: 1 singing, 1 calling.
Yellow Warbler	RMDP-2	5/18/19	34.415161	-118.65563	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41486	-118.656127	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41331	-118.65882	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.411891	-118.659888	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.411728	-118.659641	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.410996	-118.660955	Singing.
Yellow Warbler	RMDP-2	5/18/19	34.41021	-118.661928	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.418819	-118.634878	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.418695	-118.63712	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.419031	-118.637453	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.419337	-118.63958	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.419593	-118.639862	Male. Not singing.
Yellow Warbler	RMDP-2	6/5/19	34.419516	-118.642609	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.418983	-118.644043	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.418983	-118.644665	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.418938	-118.645882	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.41831	-118.647927	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.417814	-118.648946	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.417593	-118.649536	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.417406	-118.651015	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.417089	-118.651870	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.416551	-118.653122	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.414303	-118.656834	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.413807	-118.657295	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.413143	-118.658561	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.412035	-118.659533	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.411435	-118.659934	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.410895	-118.660471	Singing.

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Yellow Warbler	RMDP-2	6/5/19	34.410138	-118.661721	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.409789	-118.662198	Singing.
Yellow Warbler	RMDP-2	6/5/19	34.409423	-118.662833	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.418514	-118.635519	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.419299	-118.638711	Calling.
Yellow Warbler	RMDP-2	6/20/19	34.419642	-118.639642	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.419467	-118.641676	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.418955	-118.645074	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.417985	-118.647005	Calling.
Yellow Warbler	RMDP-2	6/20/19	34.418214	-118.647234	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.417882	-118.648526	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.417621	-118.6502	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.41746	-118.650961	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.416864	-118.651702	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.415125	-118.656085	Calling.
Yellow Warbler	RMDP-2	6/20/19	34.414232	-118.656513	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.413798	-118.656738	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.413326	-118.657391	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.413245	-118.658795	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.411598	-118.659881	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.410908	-118.660498	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.410217	-118.661738	Singing.
Yellow Warbler	RMDP-2	6/20/19	34.410002	-118.661873	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.418987	-118.63461	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.419317	-118.642779	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.419291	-118.644002	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.418109	-118.647514	Male and female.
Yellow Warbler	RMDP-2	7/1/19	34.417417	-118.649015	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.417735	-118.649112	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.417668	-118.650266	Calling.
Yellow Warbler	RMDP-2	7/1/19	34.417303	-118.651314	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.416588	-118.652853	Family group.
Yellow Warbler	RMDP-2	7/1/19	34.415669	-118.65474	Family group.
Yellow Warbler	RMDP-2	7/1/19	34.414592	-118.656874	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.411289	-118.660375	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.410355	-118.661462	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.409568	-118.662693	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.409613	-118.662958	Singing.
Yellow Warbler	RMDP-2	7/1/19	34.419259	-118.64788	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.418624	-118.635694	Female.
Yellow Warbler	RMDP-2	7/3/19	34.419574	-118.639266	Calling.
Yellow Warbler	RMDP-2	7/3/19	34.419477	-118.641841	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.418202	-118.64779	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.417943	-118.648965	Singing.

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Yellow Warbler	RMDP-2	7/3/19	34.417757	-118.649912	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.417481	-118.650218	Calling.
Yellow Warbler	RMDP-2	7/3/19	34.417154	-118.651888	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.416293	-118.653522	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.415464	-118.654877	Calling.
Yellow Warbler	RMDP-2	7/3/19	34.413863	-118.656927	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.413309	-118.658598	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.412979	-118.658919	Calling.
Yellow Warbler	RMDP-2	7/3/19	34.411646	-118.660008	Calling.
Yellow Warbler	RMDP-2	7/3/19	34.411019	-118.660939	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.41021	-118.661864	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.410098	-118.662009	Singing.
Yellow Warbler	RMDP-2	7/3/19	34.409399	-118.662542	Singing.
Yellow Warbler	VenCo-1	4/11/19	34.401523	-118.714984	Singing
Yellow Warbler	VenCo-1	4/11/19	34.40652	-118.722724	Singing
Yellow Warbler	VenCo-1	4/11/19	34.407228	-118.725428	Singing
Yellow Warbler	VenCo-1	4/11/19	34.407977	-118.727231	Singing
Yellow Warbler	VenCo-1	4/11/19	34.408491	-118.72758	Singing
Yellow Warbler	VenCo-1	4/11/19	34.407623	-118.730515	Singing.
Yellow Warbler	VenCo-1	4/11/19	34.40594	-118.733596	Singing.
Yellow Warbler	VenCo-1	4/11/19	34.403359	-118.738698	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.400137	-118.713914	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.404725	-118.720327	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.405072	-118.721431	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.406036	-118.722072	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.407499	-118.725178	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.407877	-118.727776	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.406497	-118.733422	Singing.
Yellow Warbler	VenCo-1	4/23/19	34.403667	-118.738237	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.400921	-118.714598	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.404275	-118.722058	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.406435	-118.722747	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.406436	-118.724165	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.407245	-118.725791	2 birds. one singing, one calling. pair?
Yellow Warbler	VenCo-1	5/9/19	34.407756	-118.727424	2 birds countersinging.
Yellow Warbler	VenCo-1	5/9/19	34.407956	-118.730023	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.404905	-118.735194	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.404568	-118.736075	Singing.
Yellow Warbler	VenCo-1	5/9/19	34.40728	-118.733378	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.402844	-118.742627	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.403016	-118.737755	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.404291	-118.73627	One calling, one singing together.

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					Possible pair.
Yellow Warbler	VenCo-1	5/20/19	34.405593	-118.734292	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.407683	-118.730117	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.408019	-118.727998	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.407216	-118.725933	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.404862	-118.720954	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.400136	-118.713312	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.400894	-118.71427	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.402403	-118.715189	Singing.
Yellow Warbler	VenCo-1	5/20/19	34.405863	-118.722064	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.402928	-118.737841	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.404868	-118.73555	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.405698	-118.733851	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.406285	-118.733086	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.40734	-118.731898	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.407719	-118.727436	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.407265	-118.726091	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.406702	-118.724483	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.404821	-118.720728	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.401273	-118.714991	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.403774	-118.716142	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.404821	-118.720349	Singing.
Yellow Warbler	VenCo-1	6/4/19	34.405618	-118.721748	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.402699	-118.742757	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.404662	-118.735035	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.407398	-118.731222	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.407692	-118.729962	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.40717	-118.725817	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.40614	-118.722384	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.404514	-118.719876	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.400422	-118.713948	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.403441	-118.716258	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.405387	-118.721313	Singing.
Yellow Warbler	VenCo-1	6/20/19	34.407572	-118.732444	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.403374	-118.738021	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.405675	-118.733734	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.407543	-118.73243	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.407811	-118.728851	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.406558	-118.722987	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.404977	-118.722032	Singing.
Yellow Warbler	VenCo-1	7/1/19	34.407274	-118.723995	Singing.
Yellow Warbler	VenCo-1	7/15/19	34.404805	-118.735311	Singing.
Yellow Warbler	VenCo-1	7/15/19	34.406539	-118.732277	visual.
Yellow Warbler	VenCo-1	7/15/19	34.407386	-118.731105	calling.

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Yellow Warbler	VenCo-1	7/15/19	34.407807	-118.728515	Singing.
Yellow Warbler	VenCo-1	7/15/19	34.406611	-118.724746	Singing.
Yellow Warbler	VenCo-1	7/15/19	34.407478	-118.724465	Singing.
Yellow Warbler	VenCo-1	7/15/19	34.407284	-118.732882	Singing.
Yellow Warbler	VenCo-2	4/12/19	34.402904	-118.693223	Singing.
Yellow Warbler	VenCo-2	4/12/19	34.401608	-118.69984	Singing.
Yellow Warbler	VenCo-2	4/12/19	34.400648	-118.703834	Singing.
Yellow Warbler	VenCo-2	4/12/19	34.396201	-118.709447	Singing.
Yellow Warbler	VenCo-2	4/24/19	34.396552	-118.709525	Singing.
Yellow Warbler	VenCo-2	4/24/19	34.394984	-118.707701	Singing.
Yellow Warbler	VenCo-2	4/24/19	34.399024	-118.704515	Singing.
Yellow Warbler	VenCo-2	4/24/19	34.401029	-118.703362	Singing.
Yellow Warbler	VenCo-2	4/24/19	34.401483	-118.697044	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.398861	-118.713079	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.397314	-118.711208	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.398468	-118.705151	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.399419	-118.704573	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.401333	-118.699018	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.401506	-118.696826	Singing.
Yellow Warbler	VenCo-2	5/10/19	34.401267	-118.702342	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.398205	-118.711827	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.397478	-118.709627	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.399394	-118.706166	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.400763	-118.704431	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.401754	-118.701205	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.401461	-118.697596	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.402636	-118.693697	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.401319	-118.69608	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.401346	-118.699205	Singing.
Yellow Warbler	VenCo-2	5/21/19	34.401164	-118.703453	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.399493	-118.71321	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.397312	-118.711282	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.398662	-118.70491	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.400599	-118.704326	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.401574	-118.700143	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.401688	-118.696848	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.402538	-118.693828	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.401641	-118.695332	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.401381	-118.698415	Singing.
Yellow Warbler	VenCo-2	6/5/19	34.401678	-118.701953	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.400401	-118.714022	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.398648	-118.705105	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.404152	-118.696882	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.40142	-118.696475	Singing.

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Yellow Warbler	VenCo-2	6/21/19	34.401341	-118.699504	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.401169	-118.700067	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.40052	-118.70421	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.399359	-118.704503	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.397371	-118.705627	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.396544	-118.705826	Singing.
Yellow Warbler	VenCo-2	6/21/19	34.395535	-118.708985	Singing.
Yellow Warbler	VenCo-2	7/2/19	34.400335	-118.712944	Singing.
Yellow Warbler	VenCo-2	7/2/19	34.399285	-118.706042	2 birds calling.
Yellow Warbler	VenCo-2	7/2/19	34.403115	-118.691741	visual.
Yellow Warbler	VenCo-2	7/2/19	34.402076	-118.69465	Singing.
Yellow Warbler	VenCo-2	7/2/19	34.401411	-118.696525	calling
Yellow Warbler	VenCo-2	7/2/19	34.401478	-118.699168	Singing.
Yellow Warbler	VenCo-2	7/2/19	34.40138	-118.699919	Singing.
Yellow Warbler	VenCo-2	7/2/19	34.400553	-118.704418	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.399327	-118.706186	Calling
Yellow Warbler	VenCo-2	7/16/19	34.400485	-118.704859	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.402686	-118.693114	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.40219	-118.69478	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.401479	-118.696532	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.401444	-118.701159	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.3965	-118.705598	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.395347	-118.708495	Singing.
Yellow Warbler	VenCo-2	7/16/19	34.395902	-118.708951	1 singing. 1 begging juv.

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Attachment E: Yellow-breasted Chat detections

Species	Survey Area	Date	Lat	Long	Notes
Yellow-breasted Chat	RMDP-1	4/11/19	34.403924	-118.675757	Singing.
Yellow-breasted Chat	RMDP-1	4/11/19	34.405173	-118.674282	Singing; counter-singing with another.
Yellow-breasted Chat	RMDP-1	4/11/19	34.407578	-118.668591	Singing.
Yellow-breasted Chat	RMDP-2	4/13/19	34.415557	-118.653519	Singing.
Yellow-breasted Chat	RMDP-2	4/13/19	34.417117	-118.650818	Singing.
Yellow-breasted Chat	RMDP-2	4/13/19	34.417904	-118.649035	Singing.
Yellow-breasted Chat	VenCo-1	4/11/19	34.401591	-118.715455	Singing
Yellow-breasted Chat	VenCo-1	4/11/19	34.40792	-118.72763	Singing
Yellow-breasted Chat	NRMP-2	4/14/19	34.433988	-118.605626	Singing.
Yellow-breasted Chat	NRMP-2	4/25/19	34.433905	-118.605646	Singing.
Yellow-breasted Chat	NRMP-2	4/25/19	34.43265	-118.598535	Singing male.
Yellow-breasted Chat	VenCo-1	4/23/19	34.401746	-118.715499	Singing.
Yellow-breasted Chat	VenCo-1	4/23/19	34.407921	-118.727306	Singing.
Yellow-breasted Chat	VenCo-2	4/24/19	34.397559	-118.70523	Singing.
Yellow-breasted Chat	RMDP-1	4/25/19	34.406137	-118.675472	Singing.
Yellow-breasted Chat	RMDP-1	4/25/19	34.402953	-118.672394	Singing.
Yellow-breasted Chat	RMDP-2	4/26/19	34.419124	-118.648012	Singing.
Yellow-breasted Chat	RMDP-2	4/26/19	34.416377	-118.651085	Singing.
Yellow-breasted Chat	RMDP-1	5/5/19	34.40774	-118.669344	Singing.
Yellow-breasted Chat	RMDP-1	5/5/19	34.407499	-118.670885	Singing.
Yellow-breasted Chat	RMDP-1	5/5/19	34.406862	-118.673923	Singing.
Yellow-breasted Chat	RMDP-1	5/5/19	34.408201	-118.663259	Singing.
Yellow-breasted Chat	NRMP-1	5/7/19	34.418829	-118.633133	Singing.
Yellow-breasted Chat	RMDP-2	5/8/19	34.415473	-118.654005	Silent. Visual detection.
Yellow-breasted Chat	RMDP-2	5/8/19	34.416203	-118.651568	Singing.
Yellow-breasted Chat	RMDP-2	5/8/19	34.418466	-118.647246	Singing.
Yellow-breasted Chat	RMDP-2	5/8/19	34.419243	-118.644833	Singing.
Yellow-breasted Chat	VenCo-1	5/9/19	34.406637	-118.724635	Singing.
Yellow-breasted Chat	VenCo-2	5/10/19	34.399143	-118.71092	Singing.
Yellow-breasted Chat	VenCo-2	5/10/19	34.398985	-118.707176	Singing.
Yellow-breasted Chat	RMDP-1	5/16/19	34.406018	-118.674422	Singing.
Yellow-breasted Chat	RMDP-1	5/16/19	34.407871	-118.664353	Singing.
Yellow-breasted Chat	RMDP-1	5/16/19	34.409718	-118.66187	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.419258	-118.634115	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.419213	-118.636362	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.419176	-118.642788	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.418496	-118.644949	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.419218	-118.645594	Singing.
Yellow-breasted Chat	RMDP-2	5/18/19	34.417975	-118.649063	Singing.
Yellow-breasted Chat	RMDP-1	6/2/19	34.407113	-118.668632	Singing.

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Yellow-breasted Chat	RMDP-1	6/2/19	34.40508	-118.672356	Singing.
Yellow-breasted Chat	RMDP-1	6/2/19	34.405529	-118.673341	Singing.
Yellow-breasted Chat	RMDP-1	6/2/19	34.404285	-118.677915	Singing.
Yellow-breasted Chat	RMDP-1	6/2/19	34.40688	-118.666376	Singing.
Yellow-breasted Chat	NRMP-1	6/3/19	34.436068	-118.611294	Calling.
Yellow-breasted Chat	NRMP-1	6/3/19	34.424378	-118.622643	Calling.
Yellow-breasted Chat	VenCo-1	5/20/19	34.407666	-118.729431	Singing.
Yellow-breasted Chat	VenCo-1	5/20/19	34.407561	-118.727484	Singing.
Yellow-breasted Chat	VenCo-2	5/21/19	34.399086	-118.707487	Singing.
Yellow-breasted Chat	NRMP-2	5/22/19	34.433852	-118.605003	Singing.
Yellow-breasted Chat	VenCo-1	6/4/19	34.407792	-118.727819	Singing.
Yellow-breasted Chat	VenCo-1	6/4/19	34.407276	-118.72632	Singing.
Yellow-breasted Chat	RMDP-2	6/5/19	34.418894	-118.638067	Singing.
Yellow-breasted Chat	RMDP-2	6/5/19	34.419753	-118.640127	Singing.
Yellow-breasted Chat	RMDP-2	6/5/19	34.419231	-118.642476	Singing.
Yellow-breasted Chat	RMDP-2	6/5/19	34.418983	-118.644665	Singing.
Yellow-breasted Chat	RMDP-2	6/5/19	34.418815	-118.646425	Singing.
Yellow-breasted Chat	RMDP-1	6/14/19	34.404775	-118.673764	Singing.
Yellow-breasted Chat	RMDP-1	6/14/19	34.404416	-118.684126	Calling.
Yellow-breasted Chat	RMDP-1	6/14/19	34.407026	-118.673917	Calling.
Yellow-breasted Chat	NRMP-1	6/18/19	34.41894	-118.630815	Singing.
Yellow-breasted Chat	RMDP-2	6/20/19	34.419576	-118.643446	Singing.
Yellow-breasted Chat	RMDP-2	6/20/19	34.419041	-118.645678	Singing.
Yellow-breasted Chat	RMDP-2	6/20/19	34.418559	-118.647201	Singing.
Yellow-breasted Chat	RMDP-2	6/20/19	34.416939	-118.650565	Singing.
Yellow-breasted Chat	RMDP-2	6/20/19	34.41877	-118.64845	Singing.
Yellow-breasted Chat	RMDP-1	6/27/19	34.406779	-118.668415	Singing.
Yellow-breasted Chat	RMDP-1	6/27/19	34.405002	-118.672354	Singing.
Yellow-breasted Chat	RMDP-1	6/27/19	34.406593	-118.674162	Singing.
Yellow-breasted Chat	RMDP-1	6/27/19	34.408097	-118.66355	Singing.
Yellow-breasted Chat	RMDP-2	7/3/19	34.419382	-118.640892	Singing.
Yellow-breasted Chat	RMDP-2	7/3/19	34.41902	-118.643444	Singing.
Yellow-breasted Chat	RMDP-2	7/3/19	34.417551	-118.650716	Singing.
Yellow-breasted Chat	RMDP-2	7/3/19	34.415693	-118.652106	Singing.
Yellow-breasted Chat	RMDP-1	7/9/19	34.405679	-118.673984	Singing.
Yellow-breasted Chat	RMDP-1	7/9/19	34.405873	-118.67584	Singing.
Yellow-breasted Chat	RMDP-1	7/9/19	34.406666	-118.674198	Singing.
Yellow-breasted Chat	RMDP-2	7/1/19	34.417883	-118.649195	Singing.
Yellow-breasted Chat	VenCo-1	6/20/19	34.406947	-118.725438	Singing.
Yellow-breasted Chat	VenCo-1	6/20/19	34.402412	-118.71637	Singing.
Yellow-breasted Chat	VenCo-2	6/21/19	34.396322	-118.707592	Singing.
Yellow-breasted Chat	VenCo-2	6/21/19	34.399199	-118.706713	Singing.
Yellow-breasted Chat	NRMP-2	6/22/19	34.43356	-118.604201	Singing.
Yellow-breasted Chat	VenCo-1	7/1/19	34.407812	-118.727887	Singing.

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Yellow-breasted Chat	VenCo-2	7/2/19	34.399669	-118.705713	Singing.
Yellow-breasted Chat	VenCo-2	7/2/19	34.398508	-118.704167	Singing.
Yellow-breasted Chat	VenCo-1	7/15/19	34.407607	-118.729582	Singing.

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Attachment F: Brown-headed Cowbird Observations

Species	Date	Lat	Long	Notes
Brown-headed Cowbird	4/11/19	34.403205	-118.680983	Calling flyover.
Brown-headed Cowbird	4/11/19	34.406463	-118.674116	Male; calling flyover
Brown-headed Cowbird	4/13/19	34.415969	-118.65412	Male perched on wire
Brown-headed Cowbird	4/13/19	34.419695	-118.64315	Calling flyover.
Brown-headed Cowbird	4/14/19	34.436111	-118.609324	Calling flyover.
Brown-headed Cowbird	4/14/19	34.433996	-118.605636	Four flyovers going downstream. One male and three females.
Brown-headed Cowbird	4/14/19	34.433184	-118.604165	Calling flyover.
Brown-headed Cowbird	4/14/19	34.420072	-118.632103	2 birds, one male one female
Brown-headed Cowbird	4/24/19	34.436624	-118.610642	Male. Fly-over.
Brown-headed Cowbird	4/24/19	34.431905	-118.6179	2 females. Perched.
Brown-headed Cowbird	4/24/19	34.432165	-118.617226	Male. Fly-over.
Brown-headed Cowbird	4/24/19	34.432126	-118.619152	Singing male.
Brown-headed Cowbird	4/25/19	34.433179	-118.602426	Female. Calling.
Brown-headed Cowbird	4/25/19	34.431781	-118.594435	Female.
Brown-headed Cowbird	4/25/19	34.435001	-118.596544	2: Male and female. Fly-over.
Brown-headed Cowbird	4/25/19	34.435629	-118.599573	2: Male and female. Fly-over.
Brown-headed Cowbird	4/25/19	34.434465	-118.602217	Female.
Brown-headed Cowbird	4/25/19	34.433318	-118.605131	Singing male.
Brown-headed Cowbird	4/23/19	34.407665	-118.731412	Male. Calling.
Brown-headed Cowbird	4/25/19	34.40613	-118.674292	Male. Calling.
Brown-headed Cowbird	5/5/19	34.407336	-118.671154	Male.
Brown-headed Cowbird	5/5/19	34.403169	-118.688777	Male.
Brown-headed Cowbird	5/9/19	34.403225	-118.722145	Pair. Calling.
Brown-headed Cowbird	5/9/19	34.405893	-118.733187	Two. Perched.
Brown-headed Cowbird	5/16/19	34.405754	-118.678844	Male.
Brown-headed Cowbird	5/16/19	34.405039	-118.681344	Male.
Brown-headed Cowbird	5/16/19	34.405120	-118.687068	Female.
Brown-headed Cowbird	5/16/19	34.406066	-118.678389	Male.
Brown-headed Cowbird	6/2/19	34.408133	-118.672543	Male.
Brown-headed Cowbird	6/3/19	34.419666	-118.634994	Sex unknown. Flying.
Brown-headed Cowbird	5/20/19	34.403361	-118.738815	One calling.
Brown-headed Cowbird	5/20/19	34.407883	-118.72862	One calling.
Brown-headed Cowbird	6/4/19	34.404646	-118.736057	Calling.
Brown-headed Cowbird	6/4/19	34.40671	-118.732282	Flyover
Brown-headed Cowbird	6/5/19	34.400812	-118.703994	One calling.
Brown-headed Cowbird	6/5/19	34.419593	-118.639862	Male.
Brown-headed Cowbird	6/27/19	34.404513	-118.673299	Male. Flying over.
Brown-headed Cowbird	6/20/19	34.406514	-118.732657	2 birds. Flyover.
Brown-headed Cowbird	6/21/19	34.40132	-118.705246	Flyover

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Attachment G: Incidental sensitive vertebrate species

Species	Survey Area	Date	Lat	Long	Notes
"Coastal" Western Whiptail	NRMP-1	4/24/19	34.422448	-118.628046	
"Coastal" Western Whiptail	NRMP-1	4/24/19	34.428004	-118.622703	
"Coastal" Western Whiptail	NRMP-1	7/2/19	34.430036	-118.620817	
"Coastal" Western Whiptail	NRMP-1	7/2/19	34.419305	-118.635286	
Western Pond Turtle	RMDP-1	4/11/19	34.407404	-118.668602	Swimming in middle of river going downstream
Western Pond Turtle	NRMP-1	5/20/19	34.418994	-118.634872	
Western Pond Turtle	VenCo-2	6/5/19	34.403057	-118.691526	
Great Blue Heron	VenCo-1	4/23/19	34.40721	-118.73171	2 nests in euc.
White-tailed Kite	Castaic Ck	6/8/19	34.441905	-118.618072	Pair. Bombing a perched RTHA. Likely nest site.
White-tailed Kite	RMDP-1	6/14/19	34.406229	-118.66688	Nest with 5 recent fledglings.
Cooper's Hawk	RMDP-1	5/5/19	34.407488	-118.668868	Calling. Possible nest site.
Cooper's Hawk	Castaic Ck	5/15/19	34.434378	-118.623293	Probable nest site. Warning "chirp" from cottonwoods."
Cooper's Hawk	RMDP-1	7/9/19	34.409051	-118.663076	Nest site. Two fledglings.
Swainson's Hawk	NRMP-1	6/3/19	34.436825	-118.609626	Circling. Soaring.
Summer Tanager	RMDP-1	5/16/19	34.407532	-118.671338	Male. Calling.

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Attachment H: Bird nests located incidentally during surveys

Species	Survey Area	Date	Lat	Long	Notes
Anna's Hummingbird	RMDP-1	6/2/19	34.405582	-118.671544	Nest.
Anna's Hummingbird	RMDP-1	6/14/19	34.403027	-118.685608	Nest.
Anna's Hummingbird	RMDP-1	6/14/19	34.405456	-118.672527	Nest with eggs.
Barn Owl	Castaic Ck	5/28/19	34.4374	-118.62051	Nest with one adult and at least two young
Cliff Swallow	Castaic Ck	5/15/19	34.428057	-118.628873	Multiple nests under 126 bridge.
Cliff Swallow	Castaic Ck	6/8/19	34.436971	-118.620202	Nests under Commerce Center bridge.
Common Raven	Castaic Ck	5/3/19	34.428250	-118.62874	Nest building
Cooper's Hawk	RMDP-1	5/5/19	34.407488	-118.668868	Calling. Possible nest site.
Cooper's Hawk	Castaic Ck	5/15/19	34.434378	-118.623293	Probable nest site. Warning "chirp" from cottonwoods."
Cooper's Hawk	RMDP-1	7/9/19	34.409051	-118.663076	Nest site. Two fledglings.
Great Blue Heron	VenCo-1	4/23/19	34.40721	-118.73171	2 nests in eucalyptus
Least Bell's Vireo	RMDP-1	6/14/19	34.409526	-118.662295	Nest with nestlings. Eventually failed.
Mourning Dove	NRMP-1	5/20/19	34.418803	-118.629236	Nest. One large nestling.
Mourning Dove	RMDP-1	6/2/19	34.406354	-118.669799	Nest.
Mourning Dove	NRMP-1	6/3/19	34.419883	-118.62767	Nest.
Northern Rough-winged Swallow	Castaic Ck	5/15/19	34.448997	-118.618133	Nest in drain pipe.
Nuttall's Woodpecker	Castaic Ck	5/15/19	34.431864	-118.626494	Nest in tree cavity.
Red-tailed Hawk	VenCo-1	4/11/19	34.404828	-118.735076	Incubating. In Euc on south bank.
Red-tailed Hawk	RMDP-1	4/25/19	34.40447	-118.674569	Nest.
Western Bluebird	NRMP-1	4/24/19	34.426056	-118.623367	Nest. Male outside, female incubating.
White-tailed Kite	RMDP-1	6/14/19	34.406229	-118.66688	Nest with 5 recent fledglings.

Attachment I: Cumulative bird list

Species	Castaic Creek	SCR - NRMP	SCR - RMDP	SCR - Ventura
Canada Goose - Branta canadensis	X	X		
Mallard - Anas platyrhynchos		X	X	X
Common Merganser – Mergus merganser				X
California Quail - Callipepla californica	X	X	X	X
Rock Pigeon - Columba livia	X	X	X	X
Eurasian Collared-Dove - Streptopelia decaocto	X	X	X	X
White-winged Dove – Zenaida asiatica	X	X		
Mourning Dove - Zenaida macroura	X	X	X	X
Greater Roadrunner - Geococcyx californianus	X	X	X	
Vaux's Swift – Chaetura vauxi	X	X		X
White-throated Swift – Aeronautes saxatalis	X	X	X	X
Black-chinned Hummingbird - Archilochus alexandri	X	X	X	X
Anna's Hummingbird - Calypte anna	X	X	X	X
Costa's Hummingbird - Calypte costae	X	X	X	
Allen's Hummingbird - Selasphorus sasin	X	X	X	X
American Coot – Fulica americana			X	
Killdeer - Charadrius vociferus	X	X	X	X
Long-billed Curlew – Numenius americanus		X		
Whimbrel – Numenius phaeopus				X
Wilson's Snipe – Gallinago delicata		X		
Spotted Sandpiper – Actitus macularis		X	X	X
Western Gull – Larus occidentalis	X			
California Gull – Larus californicus	X			
Double-crested Cormorant – Phalacrocorax auritus	X			
Great Blue Heron - Ardea herodias	X	X	X	X
Great Egret – Ardea alba	X			X
Green Heron - Butorides virescens		X	X	X
Black-crowned Night-Heron - Nycticorax nycticorax				X
White-faced Ibis – Plegadis chihi			X	
Turkey Vulture – Cathartes aura	X	X	X	X
White-tailed Kite - Elanus leucurus	X		X	X
Golden Eagle – Aquila chrysaetos				X
Sharp-shinned Hawk – Accipiter striatus	X			
Cooper's Hawk - Accipiter cooperii	X	X	X	X
Red-shouldered Hawk - Buteo lineatus	X	X		X
Broad-winged Hawk – Buteo platypterus				X
Swainson's Hawk - Buteo swainsoni	X	X		X

Red-tailed Hawk - Buteo jamaicensis	X	X	X	X
Barn Owl - Tyto alba	X		X	
Great Horned Owl - Bubo virginianus	X	X	X	
Belted Kingfisher – Megaceryle alcyon	X	X		
Acorn Woodpecker - Melanerpes formicivorus	X	X	X	X
Downy Woodpecker - Picoides pubescens	X	X	X	X
Nuttall's Woodpecker - Picoides nuttallii	X	X	X	X
Hairy Woodpecker – Picoides villosus	X	X	X	X
Northern Flicker – Colaptes auratus			X	
American Kestrel - Falco sparverius	X	X	X	X
Merlin – Falco columbarius	X			
Peregrine Falcon – Falco peregrinus	X			X
Olive-sided Flycatcher – Contopus cooperi	X			
Western Wood-Pewee - Contopus sordidulus	X	X	X	X
Willow Flycatcher - Empidonax traillii		X	X	X
Gray Flycatcher – Empidonax wrightii	X			
Pacific-slope Flycatcher - Empidonax difficilis			X	X
Black Phoebe - Sayornis nigricans	X	X	X	X
Say's Phoebe - Sayornis saya	X	X		X
Ash-throated Flycatcher - Myiarchus cinerascens	X	X	X	X
Cassin's Kingbird – Tyrannus vociferans	X	X	X	X
Western Kingbird - Tyrannus verticalis	X	X	X	X
Bell's Vireo - Vireo bellii	X	X	X	X
Hutton's Vireo - Vireo huttoni			X	
Warbling Vireo - Vireo gilvus	X	X	X	X
California Scrub-Jay - Aphelocoma californica	X	X	X	X
American Crow – Corvus brachyrhynchos	X	X	X	X
Common Raven - Corvus corax	X	X	X	X
Oak Titmouse – Baeolophus inornatus	X	X	X	X
Horned Lark - Eremophila alpestris	X	X	X	
Northern Rough-winged Swallow - Stelgidopteryx serripennis	X	X	X	X
Tree Swallow - Tachycineta bicolor	X	X	X	X
Violet-green Swallow - Tachycineta thalassina		X	X	X
Barn Swallow - Hirundo rustica	X	X	X	X
Cliff Swallow - Petrochelidon pyrrhonota	X	X	X	X
Bushtit - Psaltriparus minimus	X	X	X	X
Wrentit - Chamaea fasciata	X	X	X	X
Ruby-crowned Kinglet – Regulus calendula	X			
White-breasted Nuthatch - Sitta carolinensis	X	X	X	X
Blue-gray Gnatcatcher - Polioptila caerulea		X	X	X
Rock Wren – Salpinctes obsoletus				X
House Wren - Troglodytes aedon	X	X	X	X
Bewick's Wren - Thryomanes bewickii	X	X	X	X
European Starling - Sturnus vulgaris	X	X	X	X

California Thrasher - Toxostoma redivivum	X	X	X	X
Northern Mockingbird - Mimus polyglottos	X	X		
Western Bluebird - Sialia Mexicana	X	X	X	X
Swainson's Thrush - Catharus ustulatus	X	X	X	X
American Robin - Turdus migratorius		X	X	X
Cedar Waxwing - Bombycilla cedrorum	X	X	X	X
Phainopepla - Phainopepla nitens	X	X	X	X
Scaly-breasted Munia – Lonchura punctulata			X	
House Sparrow - Passer domesticus	X			X
American Pipit – Anthus rubescens				X
House Finch - Haemorhous mexicanus	X	X	X	X
Lesser Goldfinch - Spinus psaltria	X	X	X	X
Lawrence's Goldfinch - Spinus lawrencei	X	X	X	X
American Goldfinch - Spinus tristis	X	X	X	X
Chipping Sparrow – Spizella passerina	X			X
Lark Sparrow - Chondestes grammacus		X	X	X
White-crowned Sparrow - Zonotrichia leucophrys	X	X		X
Savannah Sparrow – Passerculus sandwichensis			X	X
Song Sparrow - Melospiza melodia	X	X	X	X
Lincoln's Sparrow – Melospiza lincolnii		X		
California Towhee - Melozone crissalis	X	X	X	X
Rufous-crowned Sparrow – Aimophila ruficeps	X	X	X	X
Spotted Towhee - Pipilo maculates	X	X	X	X
Yellow-breasted Chat - Icteria virens		X	X	X
Yellow-headed Blackbird – Xanthocephalus xanthocephalus			X	
Hooded Oriole - Icterus cucullatus	X	X	X	X
Bullock's Oriole - Icterus bullockii	X	X	X	X
Red-winged Blackbird - Agelaius phoeniceus	X	X	X	X
Brown-headed Cowbird – Molothrus ater	X	X	X	X
Brewer's Blackbird - Euphagus cyanocephalus	X	X		X
Great-tailed Grackle - Quiscalus mexicanus				X
Orange-crowned Warbler - Oreothlypis celata	X	X		X
Nashville Warbler - Oreothlypis ruficapilla		X		X
Common Yellowthroat - Geothlypis trichas	X	X	X	X
Yellow Warbler - Setophaga petechia	X	X	X	X
Yellow-rumped Warbler - Setophaga coronata	X	X	X	X
Black-throated Gray Warbler - Setophaga nigrescens	X	X		
Townsend's Warbler – Setophaga townsendi			X	
Wilson's Warbler - Cardellina pusilla	X	X	X	X
Summer Tanager – Piranga rubra			X	
Western Tanager - Piranga ludoviciana	X	X	X	X
Black-headed Grosbeak – Pheucticus melanocephalus	X	X	X	X
Blue Grosbeak - Passerina caerulea	X	X	X	X
Lazuli Bunting - Passerina amoena	X	X	X	X

Appendix C

Cultural Resources

Appendix C1

Department of Parks and Recreation Form

State of California ♘ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION
PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

Page 1 **of** 6 ***Resource Name or #:** (Assigned by recorder) Old Road Bridge
P1. Other Identifier: 53D1403

***P2. Location:** ☐ **Not for Publication** ■ **Unrestricted**
***a. County** Los Angeles County **and** (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad** Newhall **Date** 1995 **T** __; **R** ___; __ ☐ **of** __ ☐ **of Sec** __; _____ **B.M.**
c. Address 29701 The Old Road City Castaic Zip 91384
d. UTM: (Give more than one for large and/or linear resources) Zone 11S , 351641.0 mE/ 3813382.7 mN
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)
Decimal Degrees: 34.451358°, -118.615115°; From Castaic Junction at Interstate 5 and California Highway 126 (Newhall Ranch Road), take the exit for The Old Road and travel 1.9 miles north to the bridge over Castaic Creek. No assessor's parcel number is recorded for this property.

***P3a. Description:** (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)
The subject property is a box girder bridge, constructed of concrete, spans 247 feet long and has a 35 foot wide deck, which features the 2-lane roadbed. The 1931 bridge also has low, cast-in-place concrete balustrades with minimalist arch and bevel detailing that flare outward before they terminate at either end. It is supported by squared concrete piers under the bridge over Castaic Creek, and board-form concrete abutments. Some of the squared piers appear to have been (See Continuation Sheet)

***P3b. Resource Attributes:** (List attributes and codes) HP19- bridge

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



***P4. Resources Present:** ☐ Building ■ Structure ☐ Object ☐ Site ☐ District ☐ Element of District ☐ Other (Isolates, etc.)

P5b. Description of Photo: (view, date, accession #) Old Road Bridge looking southeast (IMG 0205)

***P6. Date Constructed/Age and Source:** ■ Historic ☐ Prehistoric ☐ Both
1931 (Caltrans 1986)

***P7. Owner and Address:**
County of Los Angeles
Department of Public Works
900 South Fremont Avenue
Alhambra, CA 91803-1331

***P8. Recorded by:** (Name, affiliation, and address) Kate Kaiser, MSHP
Dudek
38 N. Marengo Ave
Pasadena, CA 91101

***P9. Date Recorded:** 5/31/2019
***P10. Survey Type:** Pedestrian

***P11. Report Citation:** (Cite survey report and other sources, or enter "none.")
Dudek. 2020. "The Old Road Over Castaic Creek Project. County of Los Angeles Department of Public Works. Initial Study/Mitigated Negative Declaration Project No. RDC0015580." Prepared for the County of Los Angeles Department of Public Works. February 2020.

***Attachments:** ☐NONE ■Location Map ■Continuation Sheet ■Building, Structure, and Object Record
☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record
☐Artifact Record ☐Photograph Record ☐ Other (List):

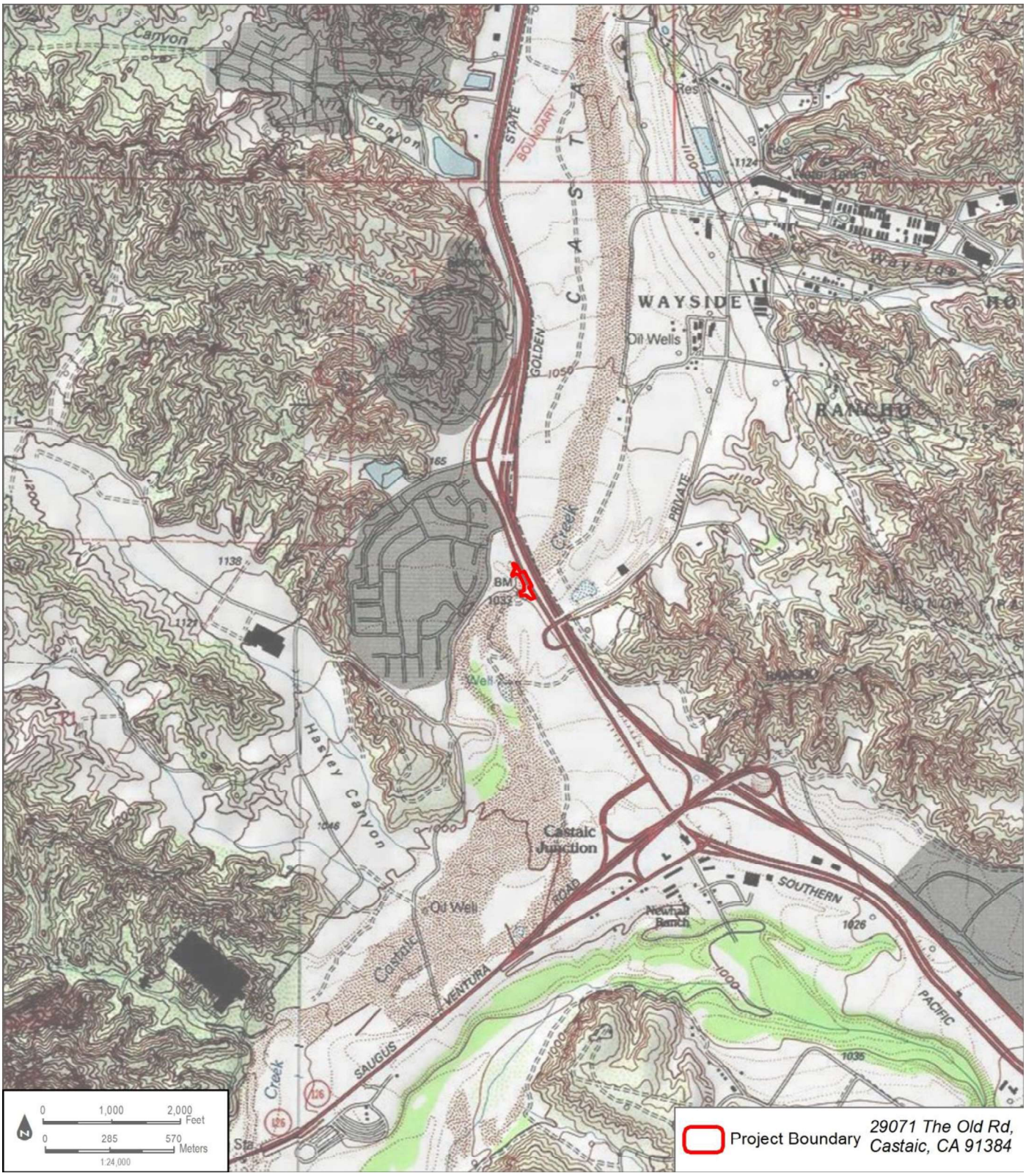
State of California ♘ Natural Resources Agency
DEPARTMENT OF PARKS AND RECREATION

LOCATION MAP

Primary #
HRI#

Trinomial

Page 2 **of** 6 ***Resource Name or #** (Assigned by recorder) Old Road Bridge
***Map Name:** Newhall, Calif. Quadrangle ***Scale:** 1:24,000 ***Date of map:** 1995



State of California ◆ The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

Primary #
HRI#

BUILDING, STRUCTURE, AND OBJECT RECORD

***Resource Name or #** (Assigned by recorder) Old Road Bridge ***NRHP Status Code** 6Z
Page 3 **of** 6
B1. Historic Name: Old Road Bridge
B2. Common Name: Old Road Bridge
B3. Original Use: Bridge B4. Present Use: Bridge
***B5. Architectural Style:** Art Deco
***B6. Construction History:** (Construction date, alterations, and date of alterations)

Construction date 1931
Alteration dates unknown

***B7. Moved?** ☐No ☐Yes ■Unknown **Date:** _____ **Original Location:** _____
***B8. Related Features:**
The Old Road/El Camino Viejo (Old US-99)

B9a. Architect: Unknown b. Builder: Caltrans

***B10. Significance: Theme** _____ **Area** _____
Period of Significance _____ **Property Type** _____ **Applicable Criteria** _____
(Discuss importance in terms of historical or architectural context as defined by theme, period, and geographic scope. Also address integrity.)

(See Continuation Sheet)

B11. Additional Resource Attributes: (List attributes and codes) _____

***B12. References:**

(See Continuation Sheet)

B13. Remarks:

***B14. Evaluator:** Kate Kaiser, MSHP
***Date of Evaluation:** May 31, 2019

(This space reserved for official comments.)

(Sketch Map with north arrow required.)



P3b. Description (Continued): replaced with cylindrical-form concrete piers, and some applied concrete patches cover spalling episodes and the introduction of modern materials such as a metal pipeline. There are a few vertical cracks through the balustrade concrete forms, but the bridge and piers appear in good condition. The roadbed has had several apparent resurfacing episodes, but does not appear to have any other alterations.

P5. Photograph or Drawing (Continued):

P5a. Photograph or Drawing	P5b. Description of Photo: (view, date, accession #)
	Old Road Bridge looking northeast (IMG 0244)
	Old Road Bridge looking northwest (IMG 0247)



Old Road Bridge looking southeast (IMG 0234)

B10. Significance (Continued): The bridge was part of US Route 99 and part of "The Old Road" or El Camino Viejo, the Spanish-era road connecting the Los Angeles basin to the San Joaquin Valley via the Sierra Pelona Mountains. In 1895, the State of California they formed the Bureau of Highways, taking control over many of the unpaved trails and toll roads in the state. El Camino Viejo came under the Bureau's jurisdiction in 1910 after California voters passed an $18 million bond to connect California and Oregon and named State Route 99, then U.S. Route 99 in 1926. El Camino Viejo served as the main road from Los Angeles to Bakersfield until 1928, when the San Francisquito Dam disaster and subsequent flood damaged several downstream bridges and road sections. The Castaic Creek Bridge (53C1403) was constructed in 1931, and was therefore not affected by the 1928 flood-necessitated repairs. Between 1936 and 1959, new engineering technology and federal funding made bridge construction and replacement feasible, connecting local communities and contributing to the expanding state economy. A system of federally funded interstate highways had been planned through the country since the late 1930s, and the Federal-Aid Highway Act of 1956 solidified the beginning of the interstate highway system in America. Interstate 5 was one of these highways and was created in 1956, taking over extant sections of US Route 99 while the freeway segments were constructed between 1956 and 1979. US Route 99 was decommissioned in 1964 (Caltrans 2016; JRP 2003; USGS Castaic Quadrangle 1931).

The bridge was originally evaluated by Caltrans as part of their original 1986 statewide historic bridge inventory and given a historic status code 5 rating, indicating that the resource was ineligible for the National Register of Historic Places (NRHP) (Caltrans1986). Despite the historic nature of El Camino Viejo segment which the bridge is situated in, the bridge's 1931 construction date confirms that it has no connection to these important historic events including Spanish-era history and the early period of state highway bureau development. Nor is it related to the later period of federal funding for highway development, bridge construction, or the eventual passage of the 1956 Federal-Aid Highway Act. As with the NRHP, the bridge would also not be eligible for the California Register of Historical Resources (CRHR) under Criterion 1 and 2 for not making a significant contribution to the broad patterns of local or regional history in California, nor associated with the life of an important local or state person. Similarly, the bridge is not eligible for the CRHR under Criterion 3 for embodying a distinctive architectural type, period, region, or method of construction. The bridge type, period of construction,

and architectural details are ubiquitous to 2-lane road bridges constructed in the 1930s. It lacks the distinctive artistic detailing of the ornate Art Deco bridges seen elsewhere in Los Angeles County, and does not have the requisite integrity to convey significance under this criterion due to multiple structural and superficial repairs. Finally, the bridge is not eligible under Criterion 4 as it does not have the potential to yield important prehistoric or historical information about the local area.

Los Angeles County also has criteria for designation of landmarks and historic districts for resources in unincorporated Los Angeles County (Section 22.52.3060). As mentioned above, the bridge is not associated with important state or local historical events; not associated with important state or local people; is not a unique example of architectural design, style, or method of construction, as well as lacks the integrity necessary to convey significance under this criteria; and will not yield important prehistory or history information. Additionally, it is also not eligible for the Los Angeles County Landmark designation because of its ineligibility for the NRHP and CRHR; and is not a tree or landscape historically significant to the county. Thus, the bridge may not be considered eligible as a Los Angeles County historical landmark or historic district.

The bridge appears not eligible for the NRHP, CRHR, or for the County of Los Angeles Register of Landmarks and Historic Districts; therefore the bridge is not considered an historical resource as defined in §15064.5. Due to the fact that no historical resources are present within the proposed Project site, the proposed Project would have a less than significant impact on historical resources and no resource specific mitigation is proposed.

B12. References (Continued):

Caltrans. 1986. "Historic Bridges in California: Concrete Arch, Concrete Girder, Concrete Slab, Canticrete, Stone Masonry, Suspension, Steel Girder and Steel Arch (Thematic)." Consensus Determination of Eligibility in September 1986 by FWHA and California State Historic Preservation Officer.

Caltrans. 2016. "A Historical Context and Methodology for Evaluating Trails, Roads and Highways in California." Prepared for the Cultural Studies Office, Division of Environmental Analysis, California Department of Transportation. Sacramento, California: Caltrans. Accessed May 31, 2019. http://www.dot.ca.gov/ser/downloads/cultural/caltrans_highways.pdf

JRP (JRP Historical Consulting Services). 2003. "Historic Context Statement Roadway Bridges of California: 1936-1959." Prepared for State of California, Department of Transportation, Environmental Program.

USGS. 1931. Castaic, California 7.5-minute Quadrangle.

Appendix C2

Confidential Records Search Results and Confidential Native American Communication

Appendix C3

Native American Coordination

Sacred Lands File & Native American Contacts List Request

NATIVE AMERICAN HERITAGE COMMISSION
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95501
(916) 373-3710
(916) 373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Old Road Over Castaic Creek Project (11125)

County: Los Angeles

USGS Quadrangle

Name: Newhall (see attached map)

Township: 4 N Range: 16W Section(s): 12

Company/Firm/Agency:

Dudek

Contact Person: Erica Nicolay

Street Address: 38 North Marengo Avenue

City: Pasadena Zip: 91101

Phone: (626) 204-9830 Extension: N/A

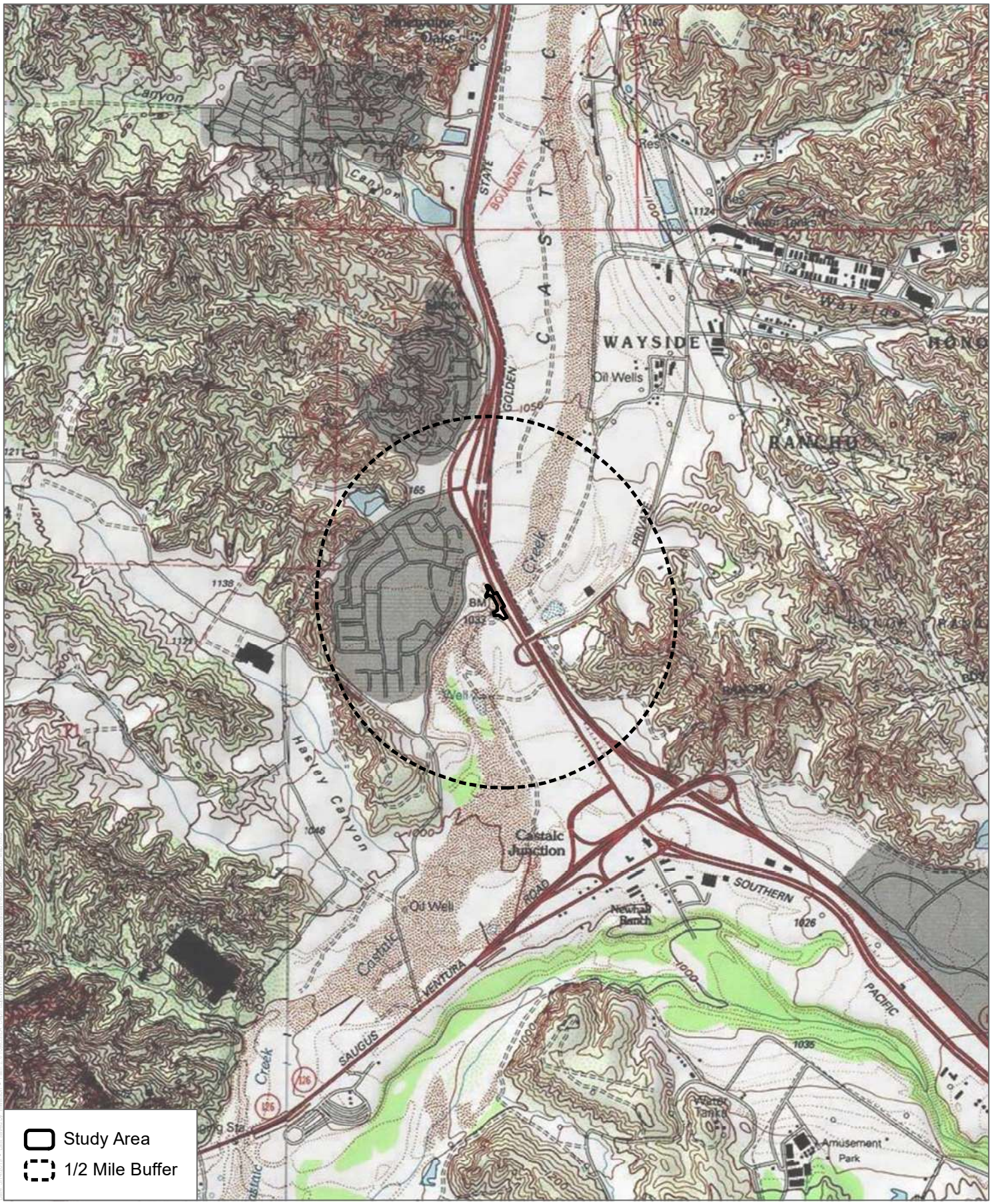
Fax: (760) 632-0164

Email: enicolay@dudek.com

Project Description:

The County of Los Angeles (County) Department of Public Works (DPW) in cooperation with the California Department of Transportation (Caltrans), proposes to seismically retrofit the Old Road over Castaic Creek Bridge in the unincorporated community of Val Verde, 0.8 miles north of State Route 1126 and west of Interstate 5.

☑ Project Location Map is attached



SOURCE: SOURCE: USGS 7.5-Minute Series Newhall Quadrangle
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12

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Records Search

Old Road Over Castaic Creek Project

NATIVE AMERICAN HERITAGE COMMISSION
Cultural and Environmental Department
1550 Harbor Blvd., Suite 100
West Sacramento, CA 95691
Phone: (916) 373-3710
Email: nahc@nahc.ca.gov
Website: http://www.nahc.ca.gov
Twitter: @CA_NAHC

April 5, 2019

Erica Nicolay
Dudek

VIA Email to: enicolay@dudek.com

RE: Old Road Over Castaic Creek Project, Los Angeles County

Dear Ms. Nicolay:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our lists contain current information. If you have any questions or need additional information, please contact me at my email address: steven.quinn@nahc.ca.gov.

Sincerely,

Steven Quinn
Associate Governmental Program Analyst

Attachment

Native American Heritage Commission
Native American Contact List
Los Angeles County
4/5/2019

Barbareno/ Ventureno Band of Mission Indians
Raudel Banuelos,
331 Mira Flores — Chumash
Camarillo, CA, 93012
Phone: (805) 427 - 0015

Barbareno/Ventureno Band of Mission Indians
Julie Tumamait-Stennslie, Chairperson
365 North Poli Ave — Chumash
Ojai, CA, 93023
Phone: (805) 646 - 6214
jtumamait@hotmail.com

Barbareno/ Ventureno Band of Mission Indians
Eleanor Arrellanes,
P. O. Box 5687 — Chumash
Ventura, CA, 93005
Phone: (805) 701 - 3246

Barbareno/ Ventureno Band of Mission Indians
Patrick Tumamait,
992 El Camino Corto — Chumash
Ojai, CA, 93023
Phone: (805) 216 - 1253

Chumash Council of Bakersfield
Julio Quair, Chairperson
729 Texas Street — Chumash
Bakersfield, CA, 93307
Phone: (661) 322 - 0121
chumashtribe@sbcglobal.net

Coastal Band of the Chumash Nation
Gino Altamirano, Chairperson
P. O. Box 4464 — Chumash
Santa Barbara, CA, 93140
cbcn.consultation@gmail.com

Fernandeno Tataviam Band of Mission Indians
Beverly Salazar Folkes, Elders Council
1931 Shady Brooks Drive — Tataviam
Thousand Oaks, CA, 91362
Phone: (805) 558 - 1154
folkes9@msn.com

Fernandeno Tataviam Band of Mission Indians
Jairo Avila, Tribal Historic and Cultural Preservation Officer
1019 Second Street, Suite 1 — Tataviam
San Fernando, CA, 91340
Phone: (818) 837 - 0794
Fax: (818) 837-0796
jairo.avila@tataviam-nsn.us

Fernandeno Tataviam Band of Mission Indians
Alan Salazar, Chairman Elders Council
1019 Second St., Suite 1 — Tataviam
San Fernando, CA, 91340
Phone: (805) 423 - 0091

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393 — Gabrieleno
Covina, CA, 91723
Phone: (626) 926 - 4131
admin@gabrielenoindians.org

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693 — Gabrieleno
San Gabriel, CA, 91778
Phone: (626) 483 - 3564
Fax: (626) 286-1262
GTTribalcouncil@aol.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Old Road Over Castaic Creek Project, Los Angeles County.

Native American Heritage Commission
Native American Contact List
Los Angeles County
4/5/2019

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231
Los Angeles, CA, 90012
Phone: (951) 807 - 0479
sgoad@gabrielino-tongva.com
Gabrielino

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, CA, 90707
Phone: (562) 761 - 6417
Fax: (562) 761-6417
gtongva@gmail.com
Gabrielino

Gabrielino-Tongva Tribe
Charles Alvarez,
23454 Vanowen Street
West Hills, CA, 91307
Phone: (310) 403 - 6048
roadkingcharles@aol.com
Gabrielino

Northern Chumash Tribal Council
Fred Collins, Spokesperson
P.O. Box 6533
Los Osos, CA, 93412
Phone: (805) 801 - 0347
fcollins@northernchumash.org
Chumash

San Fernando Band of Mission Indians
Donna Yocum, Chairperson
P.O. Box 221838
Newhall, CA, 91322
Phone: (503) 539 - 0933
Fax: (503) 574-3308
ddyocum@comcast.net
Kitanemuk
Vanyume
Tataviam

San Luis Obispo County Chumash Council
Mark Vigil, Chief
1030 Ritchie Road
Grover Beach, CA, 93433
Phone: (805) 481 - 2461
Fax: (805) 474-4729
Chumash

Santa Ynez Band of Chumash Indians
Kenneth Kahn, Chairperson
P.O. Box 517
Santa Ynez, CA, 93460
Phone: (805) 688 - 7997
Fax: (805) 686-9578
kkahn@santaynezchumash.org
Chumash

yak tityu tityu yak tiłhini – Northern Chumash Tribe
Mona Tucker, Chairperson
660 Camino Del Rey
Arroyo Grande, CA, 93420
Phone: (805) 748 - 2121
olivas.mona@gmail.com
Chumash

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This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Old Road Over Castaic Creek Project, Los Angeles County.

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Charles Alvarez, Councilman
Gabrieleno Tongva Tribe
23454 Vanowen St.
West Hills, CA 91307

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Alvarez:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

A California Historical Resources Information System (CHRIS) records search was completed at the South Central Coastal Information Center (SCCIC) for the proposed Project site and a one-mile radius. The records search indicated that 41 previous cultural resources technical investigations have been conducted within the record search area between 1974 and 2013. Of these, three studies overlap all or a portion of the proposed Project site, and three studies are adjacent to the proposed Project site. The records search also identified three resources within the record search area; none of which are within the proposed Project site. The resources include one isolated projectile point, a historic plaque constructed in 1804 to commemorate Rancho San Francisco, and Southern California Edison's (SCE's) Big Creek East and West Transmission line. On May 9, 2019 an intensive pedestrian survey of the proposed Project site was conducted. No cultural resources were identified during the intensive pedestrian survey.

Dudek contacted the California Native American Heritage Commission (NAHC) to request a Sacred Lands File (SLF) search and a list of Native American individuals and/or tribal organizations who may have knowledge of cultural resources in or near the proposed Project site.

The NAHC emailed a response on April 5, 2019, stating that the result of the SLF search were negative, though they stated that negative results do not preclude the existence of cultural resources within the proposed Project site.

The NAHC recommended that we contact you regarding your knowledge of the presence of cultural resources that may be impacted by the proposed Project. If you have any knowledge of cultural resources that may exist within or near the proposed Project site, please contact me directly at the phone number listed below, adorrler@dudek.com, or at 38 North Marengo Avenue, Pasadena, CA, 91101 within 30 days of receipt of this letter.

Please note that the request herein is for informational purposes only and does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. All information provided will be incorporated into the cultural resource assessment.

Thank you for your assistance.

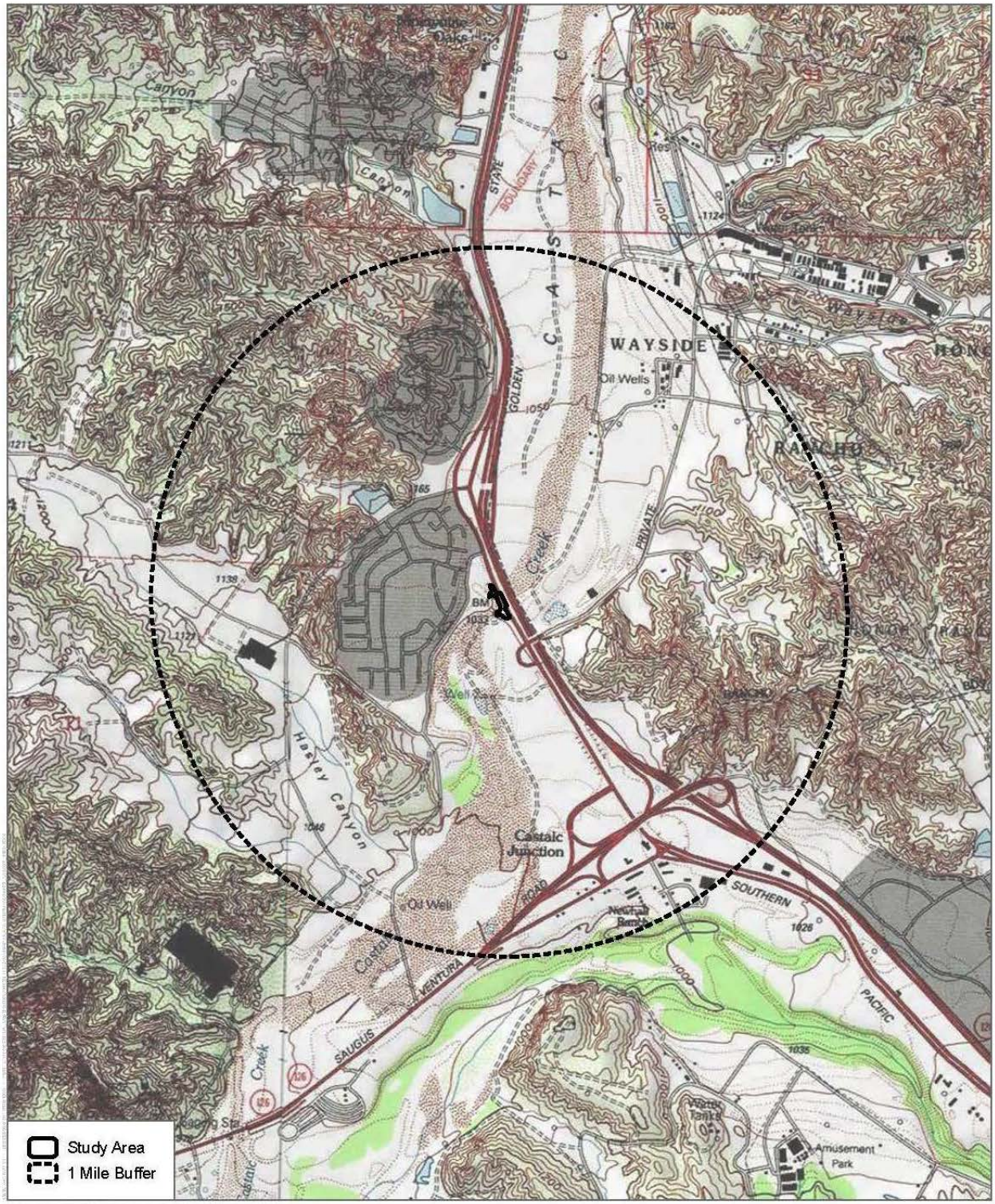
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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DUDEK

Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Ms. Eleanor Arrellanes,
Barbareno/Ventureno Band of Mission Indians
P.O. Box 5687
Ventura, CA 93012

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Ms. Arrellanes:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

A California Historical Resources Information System (CHRIS) records search was completed at the South Central Coastal Information Center (SCCIC) for the proposed Project site and a one-mile radius. The records search indicated that 41 previous cultural resources technical investigations have been conducted within the record search area between 1974 and 2013. Of these, three studies overlap all or a portion of the proposed Project site, and three studies are adjacent to the proposed Project site. The records search also identified three resources within the record search area; none of which are within the proposed Project site. The resources include one isolated projectile point, a historic plaque constructed in 1804 to commemorate Rancho San Francisco, and Southern California Edison's (SCE's) Big Creek East and West Transmission line. On May 9, 2019 an intensive pedestrian survey of the proposed Project site was conducted. No cultural resources were identified during the intensive pedestrian survey.

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The NAHC recommended that we contact you regarding your knowledge of the presence of cultural resources that may be impacted by the proposed Project. If you have any knowledge of cultural resources that may exist within or near the proposed Project site, please contact me directly at the phone number listed below, adorrler@dudek.com, or at 38 North Marengo Avenue, Pasadena, CA, 91101 within 30 days of receipt of this letter.

Please note that the request herein is for informational purposes only and does not constitute Assembly Bill (AB) 52 notification or initiation of consultation. All information provided will be incorporated into the cultural resource assessment.

Thank you for your assistance.

Sincerely,

A. Dorrler

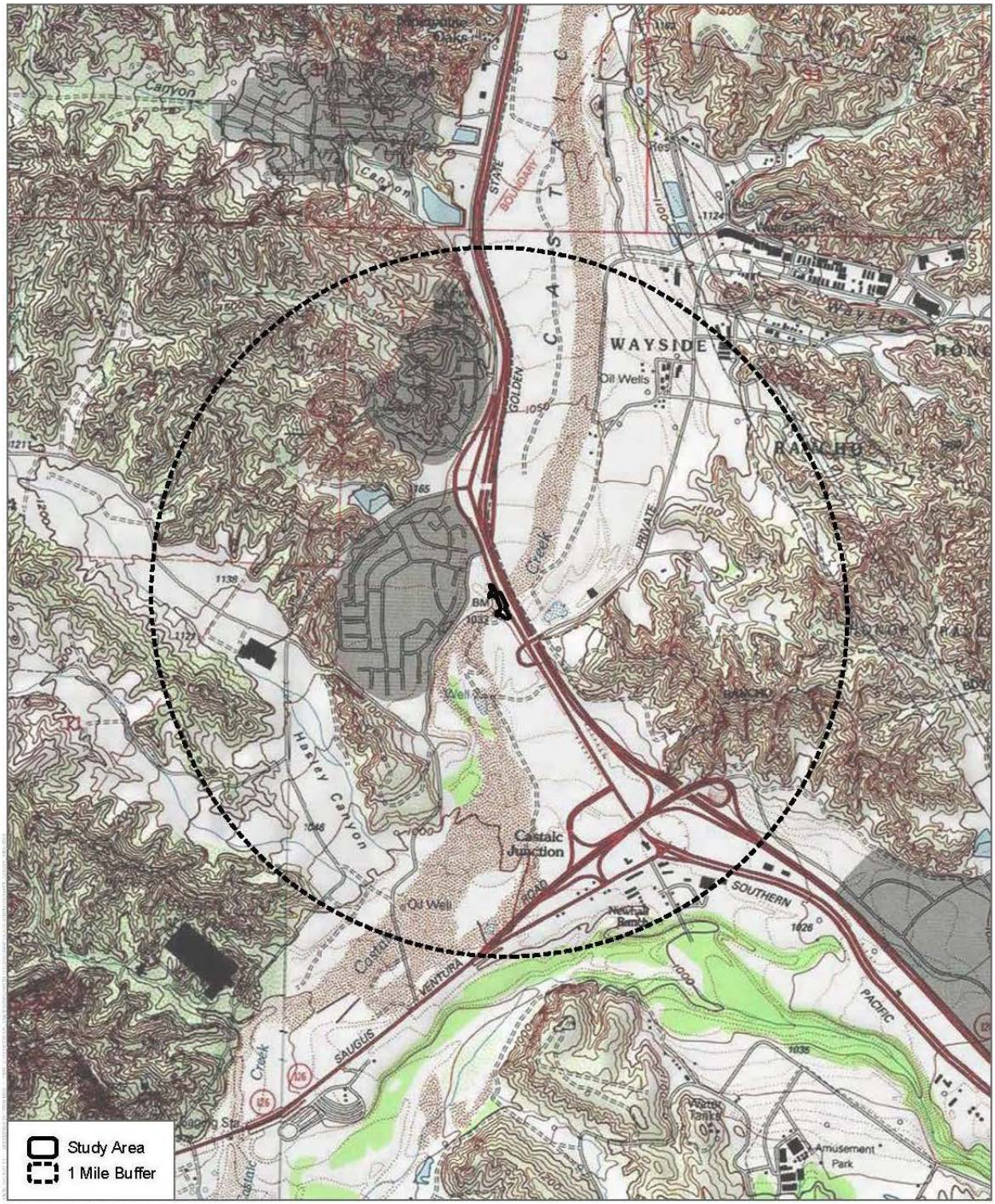
Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1

Ms. Arrellanes:

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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DUDEK

Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Jairo Avila, Tribal Historic and Cultural Preservation Officer
Fernandeno Tataviam Band of Mission Indians
1019 Second Street, Suite 1
San Fernando, CA 91304

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Avila:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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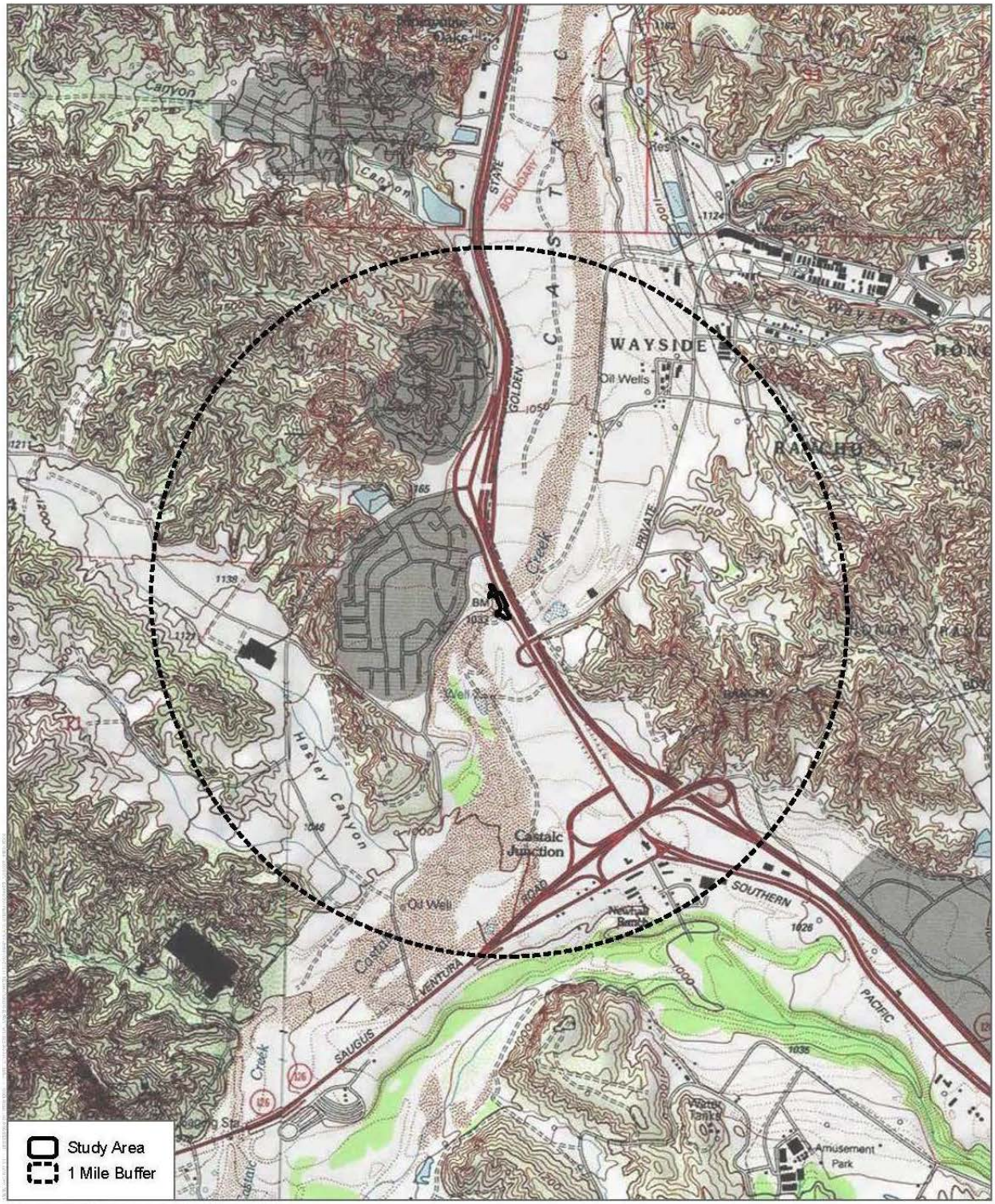
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

DUDEK

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Raudel Banuelos,
Barbareno/Ventureno Band of Mission Indians
331 Mira Flores
Camarillo, CA 93012

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Banuelos:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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Thank you for your assistance.

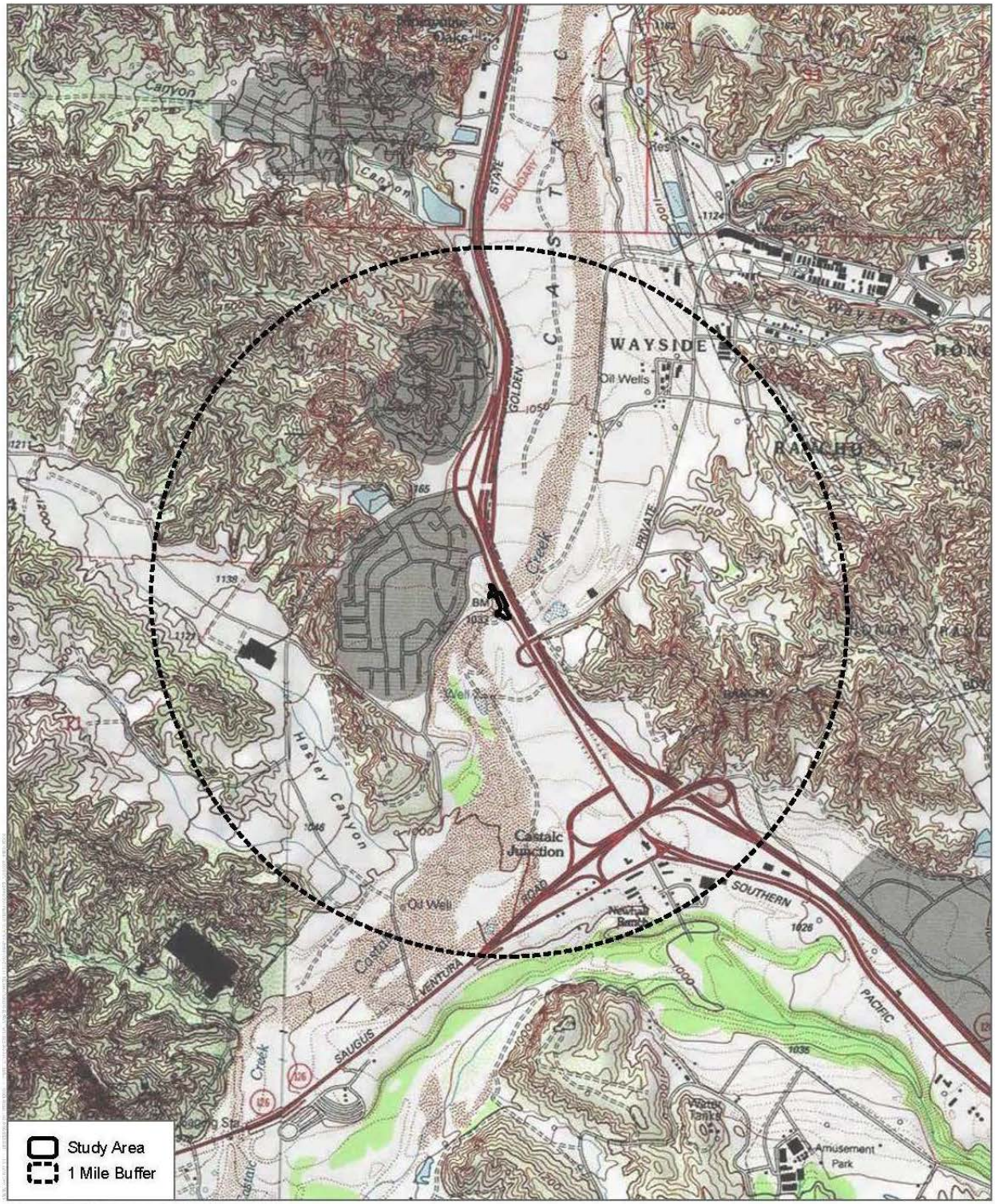
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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DUDEK

Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Fred Collins, Spokesperson
Northern Chumash Tribal Council
67 South Street
San Luis Obispo, CA 93401

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California

Dear Mr. Collins:

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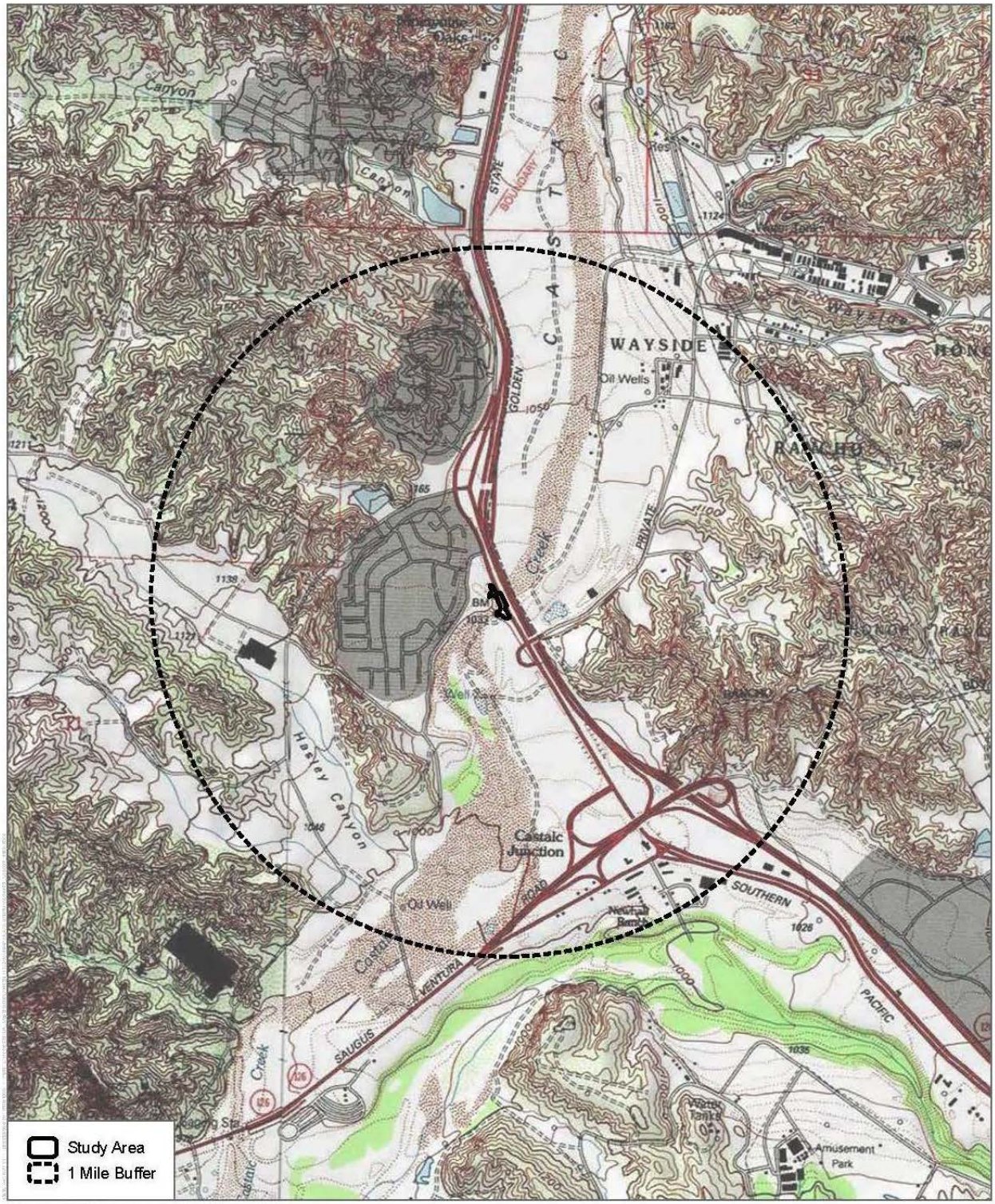
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: *Figure 1*



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DUDEK

Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Robert F. Dorame, Tribal Chair/Cultural Resources
Gabrielino Tongva Indians of California Tribal Council
P.O. Box 490
Bellflower, CA 90707

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Dorame:

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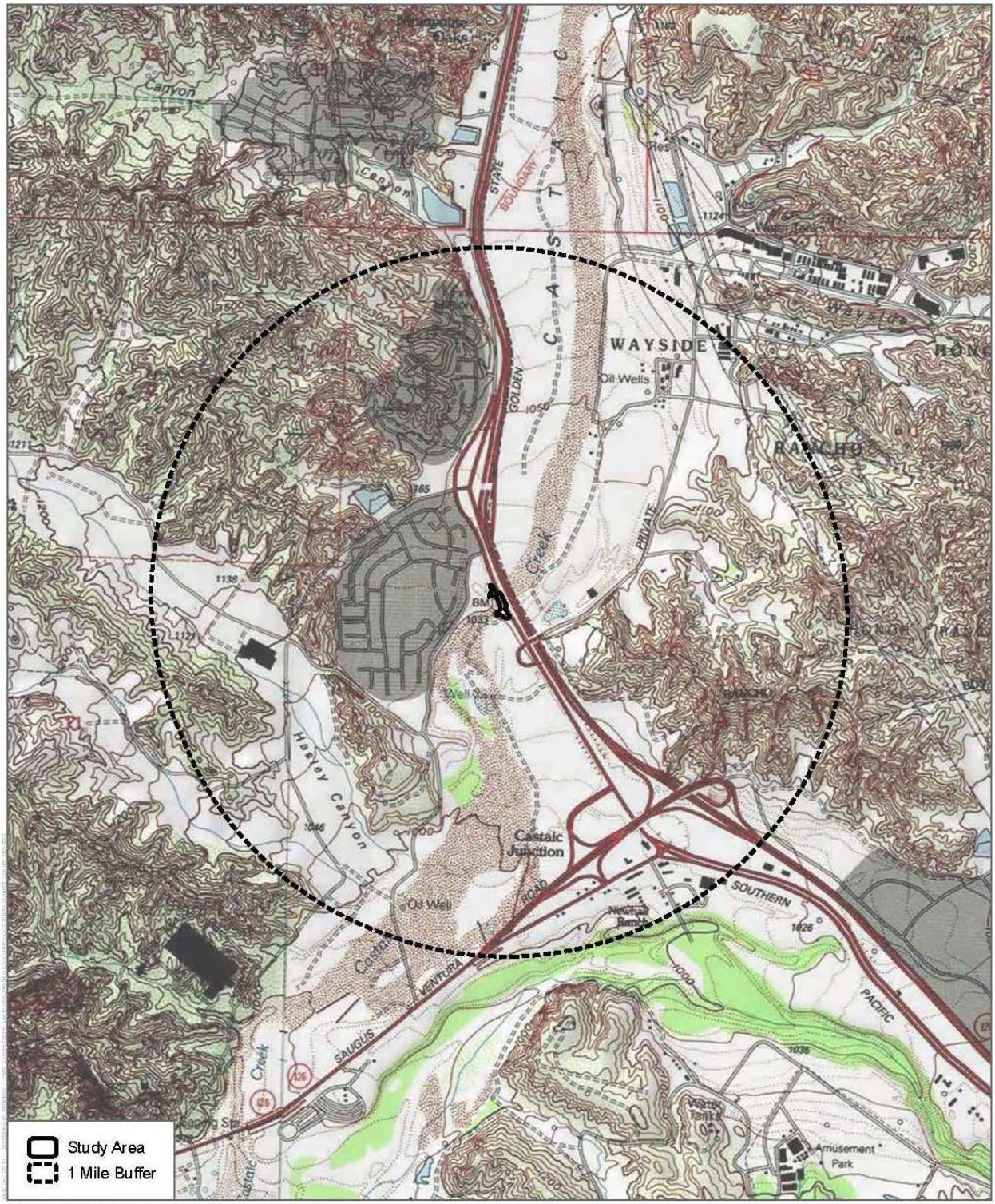
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A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

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Cell: 760.840.7556

Attachments: *Figure 1*



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Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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DUDEK

Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Ms. Sandonne Goad, Chairperson
Gabrielino-Tongva Nation
106 1/2 Judge John Also St.
Los Angeles, CA 90012

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Ms. Goad:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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Ms. Goad:

Subject: *Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California*

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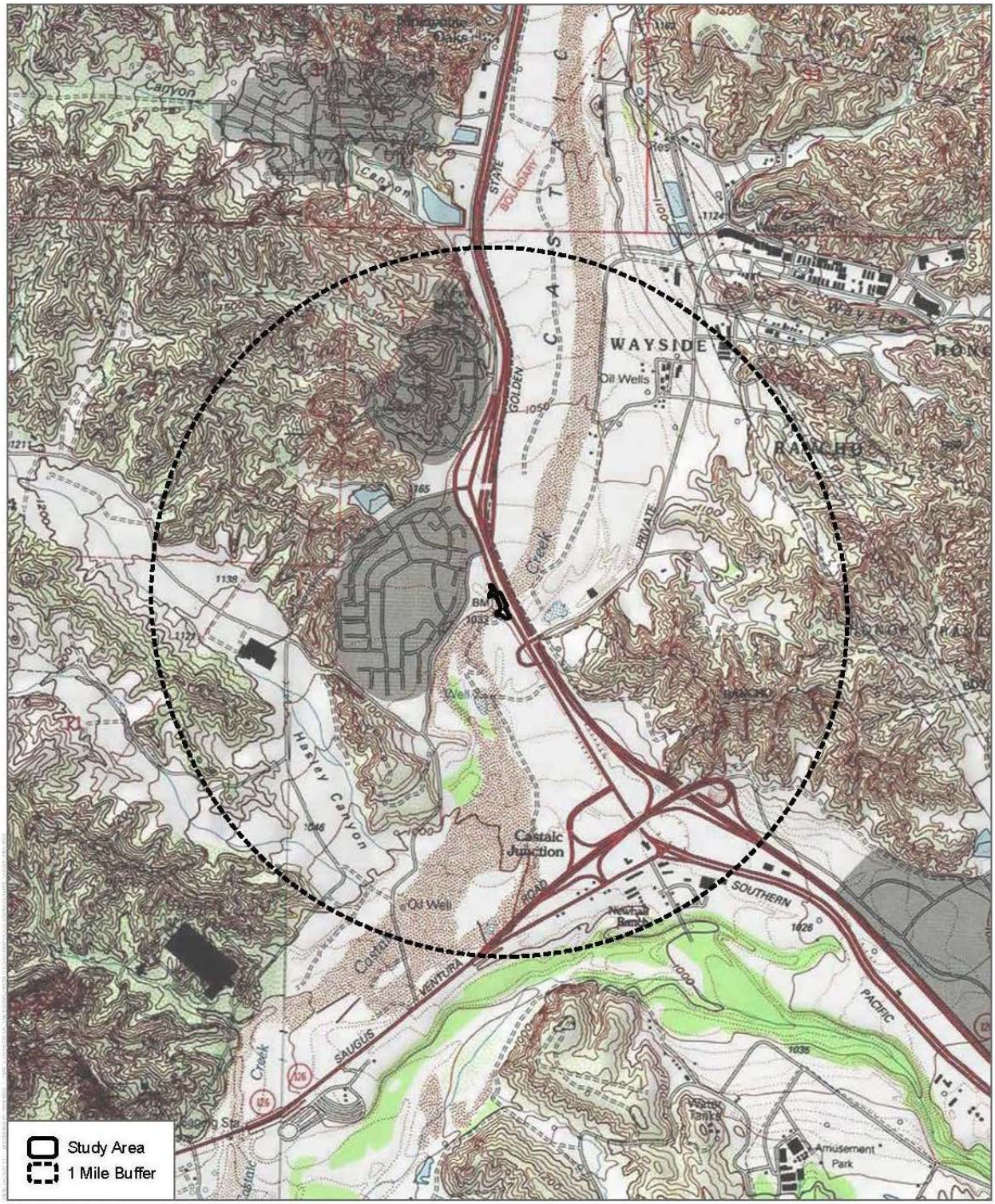
Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: *Figure 1*

Ms. Goad:

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Kenneth Kahn, Chairperson
Santa Ynez Band of Mission Indians
P.O. Box 517
Santa Ynez, CA 93460

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Kahn:

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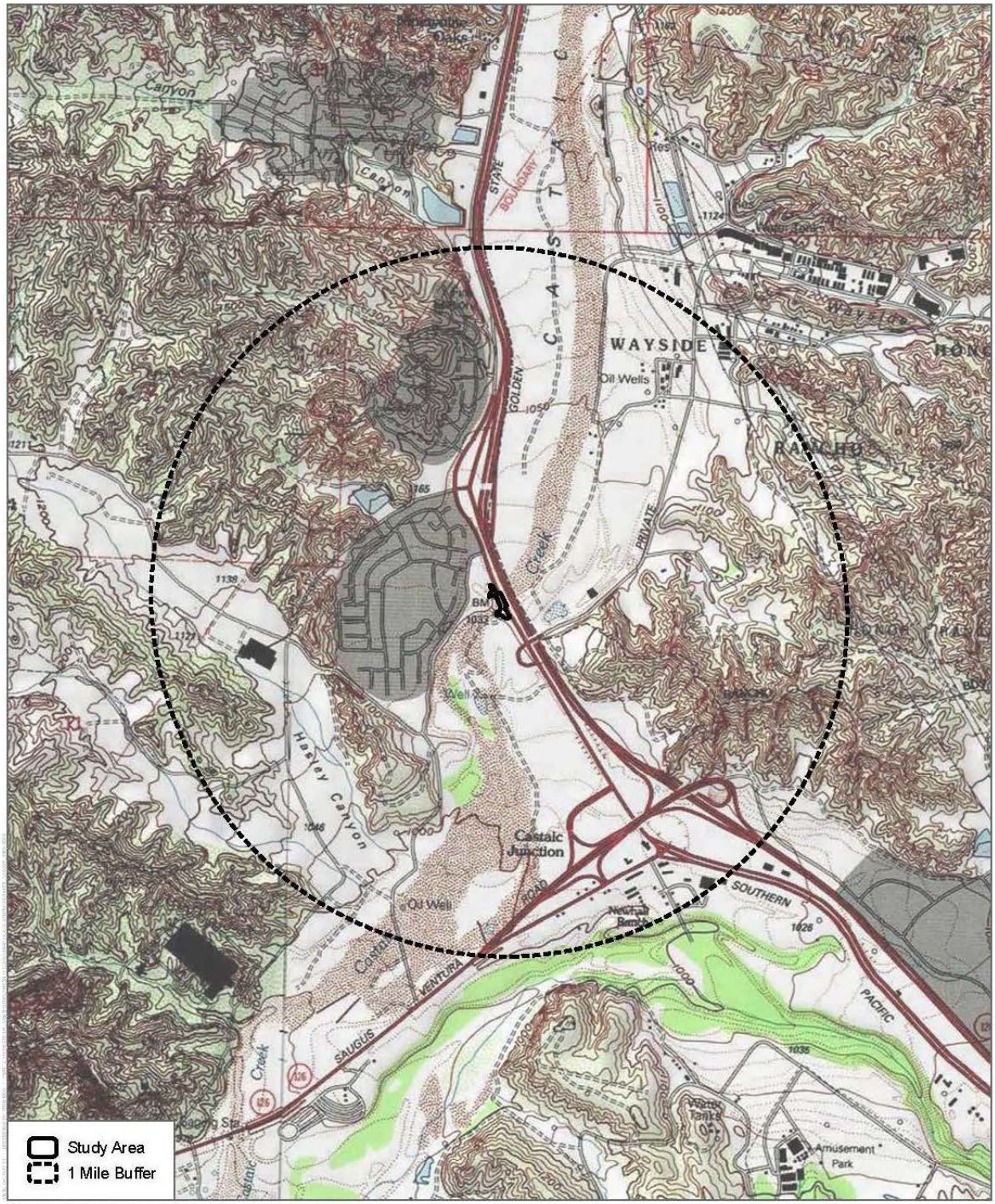
Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: *Figure 1*

Mr. Kahn:

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Anthony Morales, Chairperson
Gabrieleno/Tongva San Gabriel Band of Mission Indians
P.O. Box 693
San Gabriel, CA 91778

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Morales:

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Mr. Morales:

Subject: *Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California*

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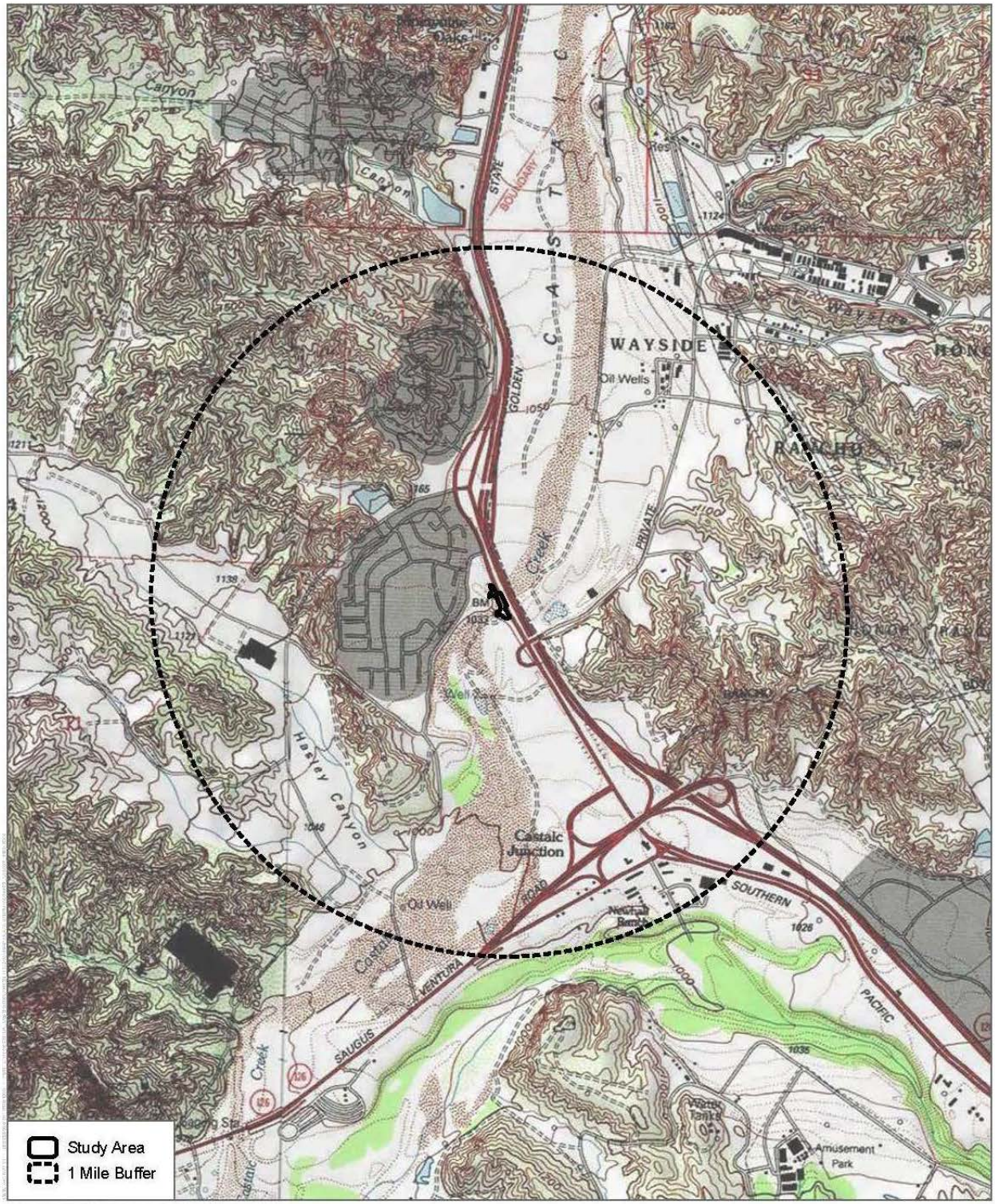
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Attachments: *Figure 1*



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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Julio Quair, Chairperson
Chumash Council of Bakersfield
729 Texas St.
Bakersfield, CA 93307

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Quair:

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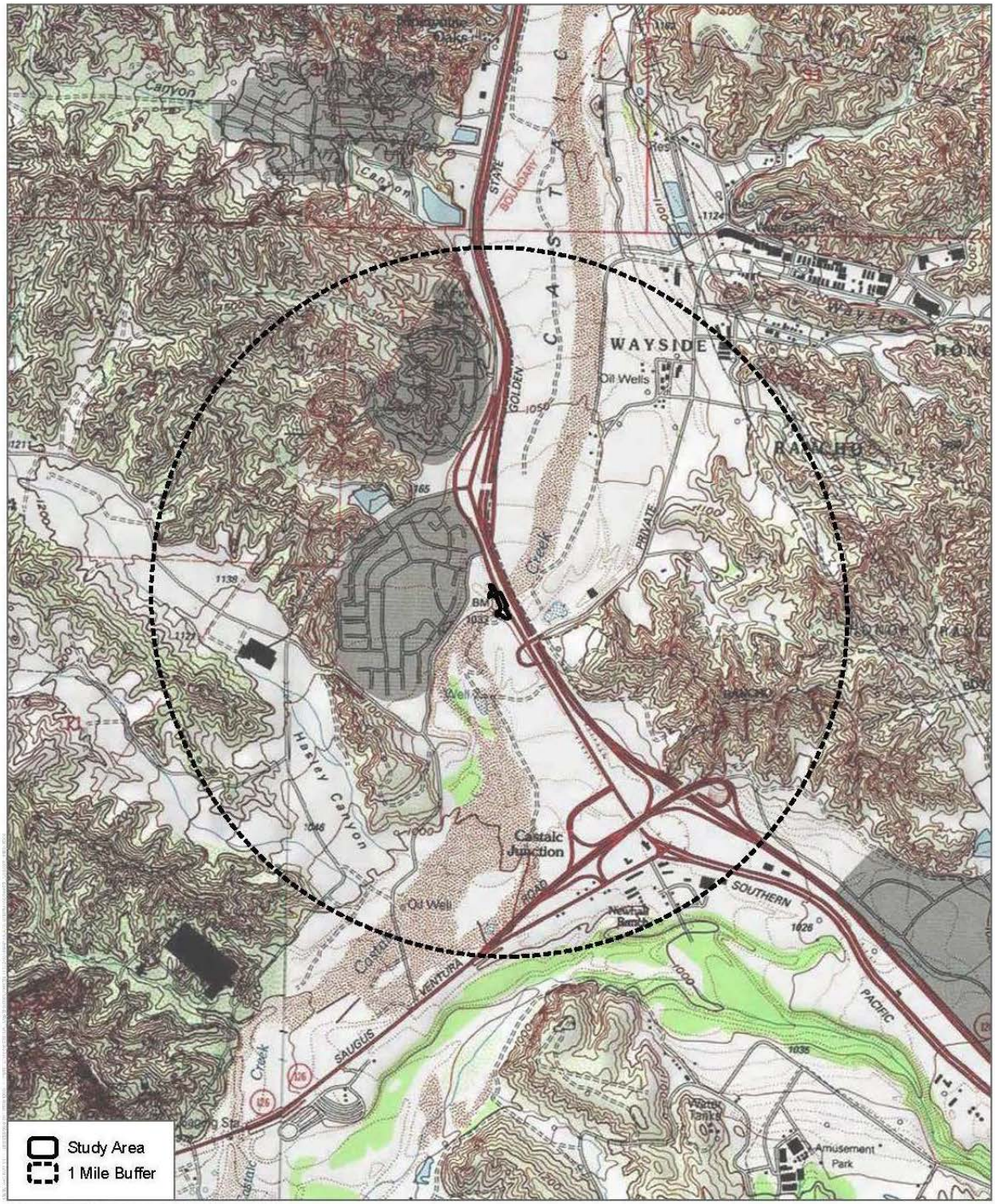
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Adriane Dorrler, BA
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Cell: 760.840.7556

Attachments: Figure 1



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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Andrew Salas, Chairperson
Gabrieleno Band of Mission Indians
P.O. Box 393
Covina, CA 91723

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

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Subject: *Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California*

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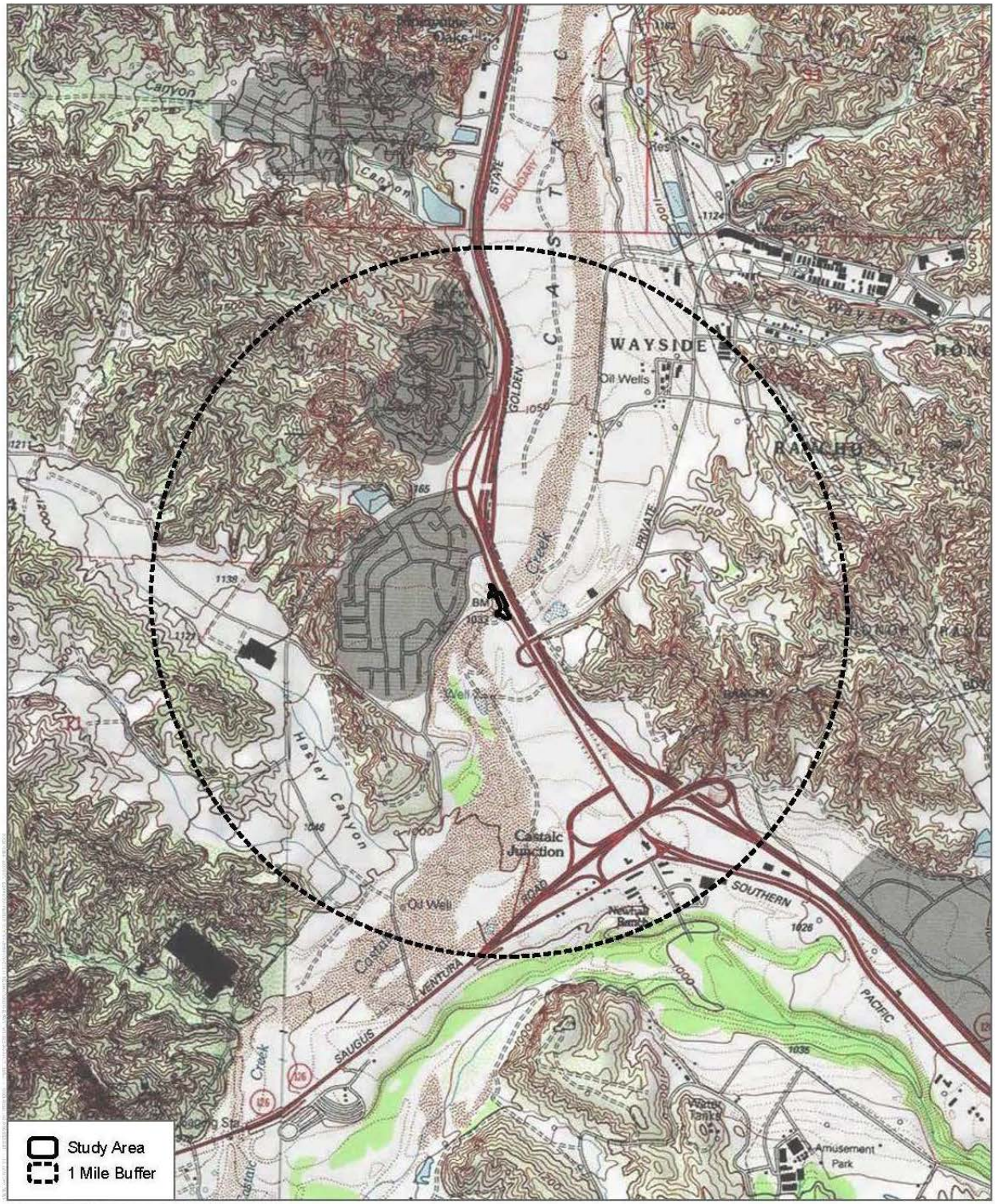
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Cell: 760.840.7556

Attachments: *Figure 1*



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Ms. Beverly Salazar, Councilmember
Fernandeno Tataviam Band of Mission Indians
1931 Shadybrook Dr.
Thousand Oaks, CA 91362

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Ms. Salazar:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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Thank you for your assistance.

Sincerely,

A. Dorrler

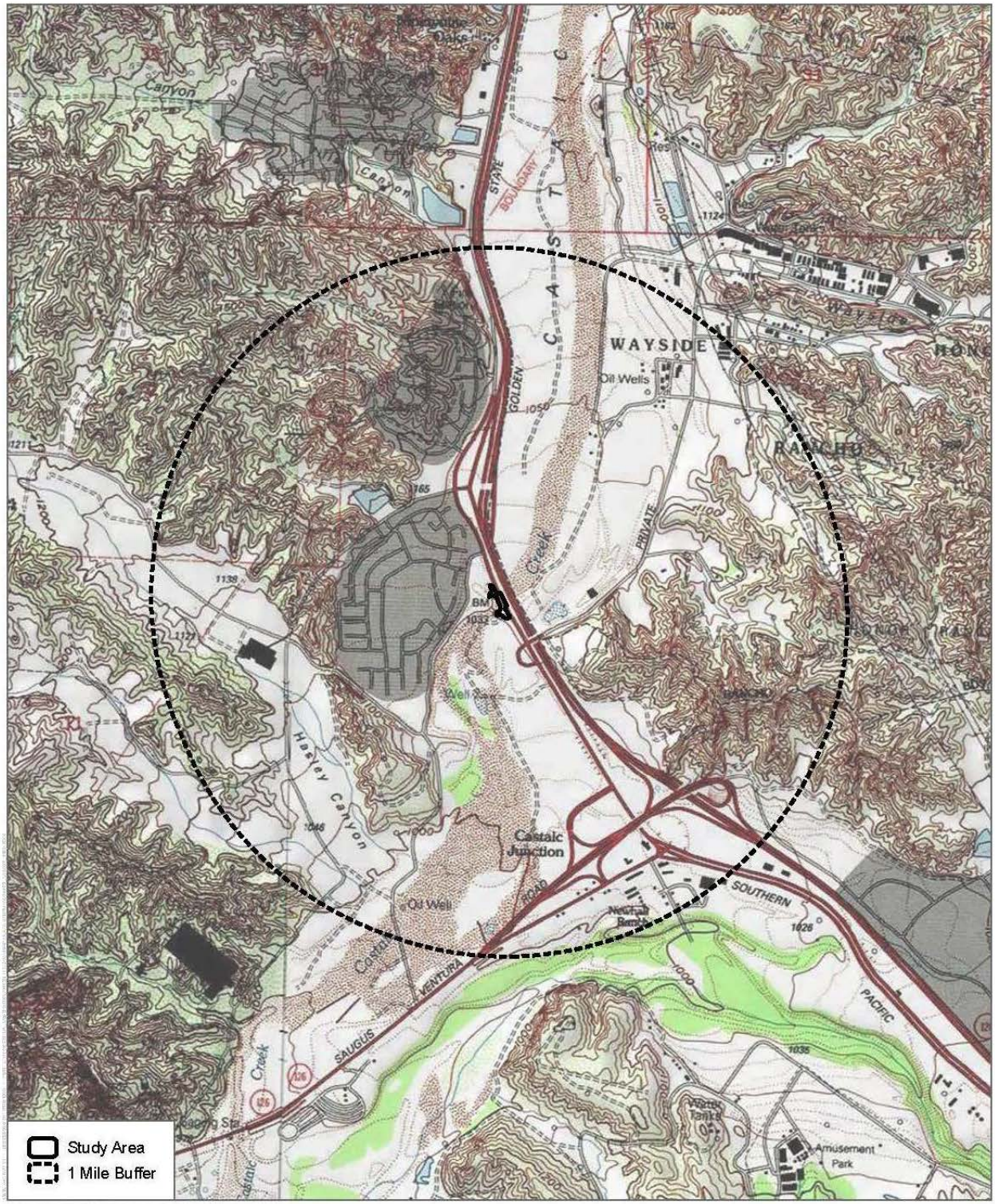
Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1

Ms. Salazar:

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Alan Salazar,
Fernandeno Tataviam Band of Mission Indians
229 Ute Lane
Ventura, CA 93001

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Salazar:

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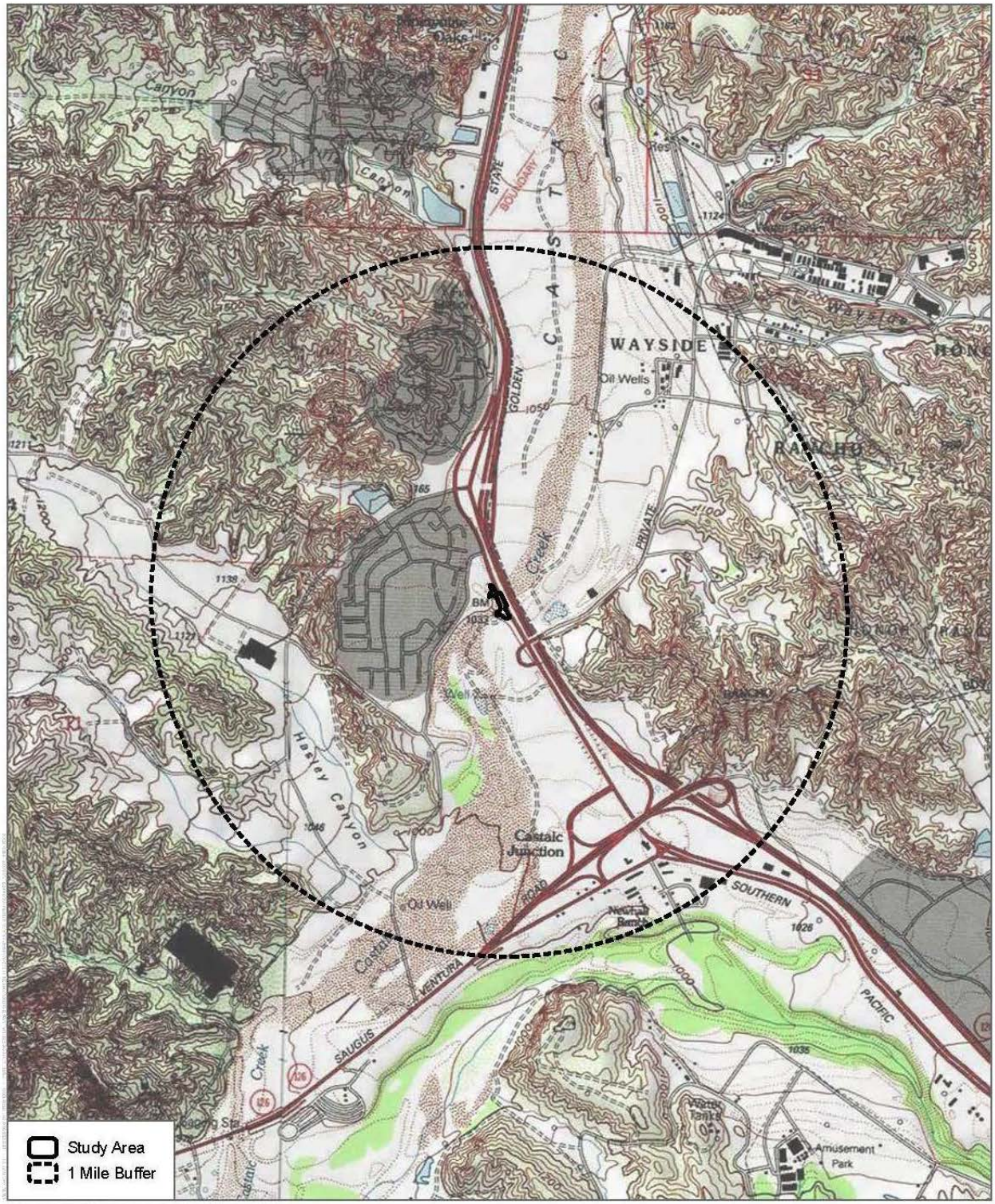
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Adriane Dorrler, BA
Associate Archaeologist

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Cell: 760.840.7556

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Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mr. Patrick Tumamalt,
Barbareno/Ventureno Band of Mission Indians
992 El Camino Corto
Ojai, CA 93023

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Mr. Tumamalt:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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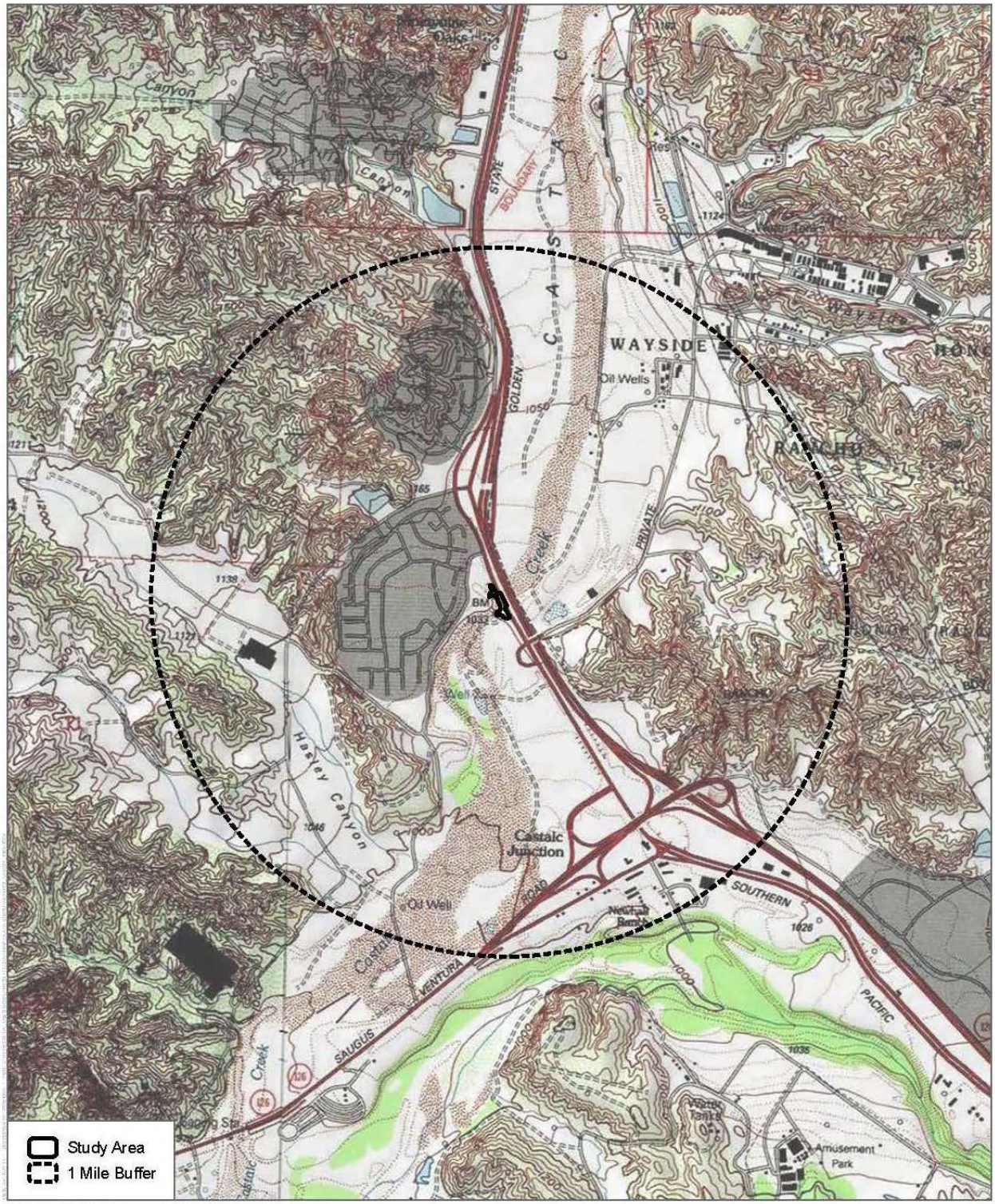
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Ms. Julie Lynn Tumamalt-Stennslie, Chair
Barbareno/Ventureno Band of Mission Indians
365 North Poll Ave
Ojai, CA 93023

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Ms. Tumamalt-Stennslie:

Dudek has been retained by the Los Angeles Department of Public Works (LADPW) in support of the proposed Old Road Over Castaic Creek Project (proposed Project). LADPW in cooperation with the California Department of Transportation (Caltrans) proposes to seismically retrofit the bridge along Old Road over Castaic Creek in the unincorporated community of Val Verde within Los Angeles County. The retrofitting includes construction seat extenders and shear keys at the abutments and piers; and constructing infill walls, new foundation, and driving micro piles at the piers. Unsound concrete will be removed and repaired. All work will be conducted within existing right-of-way but temporary construction easements are necessary. Specifically the project is within Section 12 of Township 4 North, Range 17 West, as shown on the *Newhall* USGS Quadrangle (see attached map).

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Ms. Tumamait-Stenslie:

Subject: Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California

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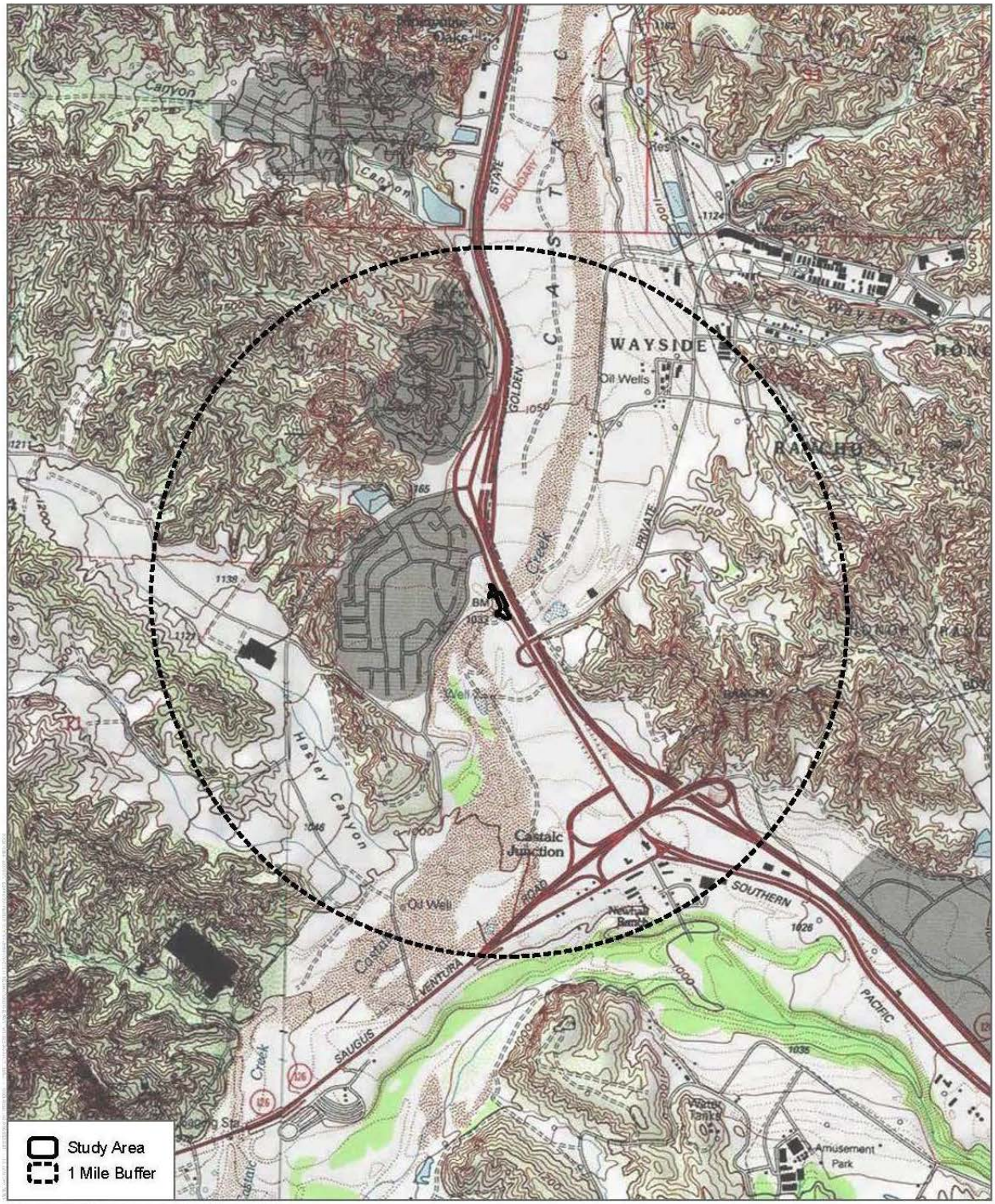
Sincerely,

A. Dorrler

Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

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38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Ms. Donna Yocum, Chairperson
San Fernando Band of Mission Indians
P.O. Box 221838
Newhall, CA 91322

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Ms. Yocum:

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Ms. Yocum:

Subject: *Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California*

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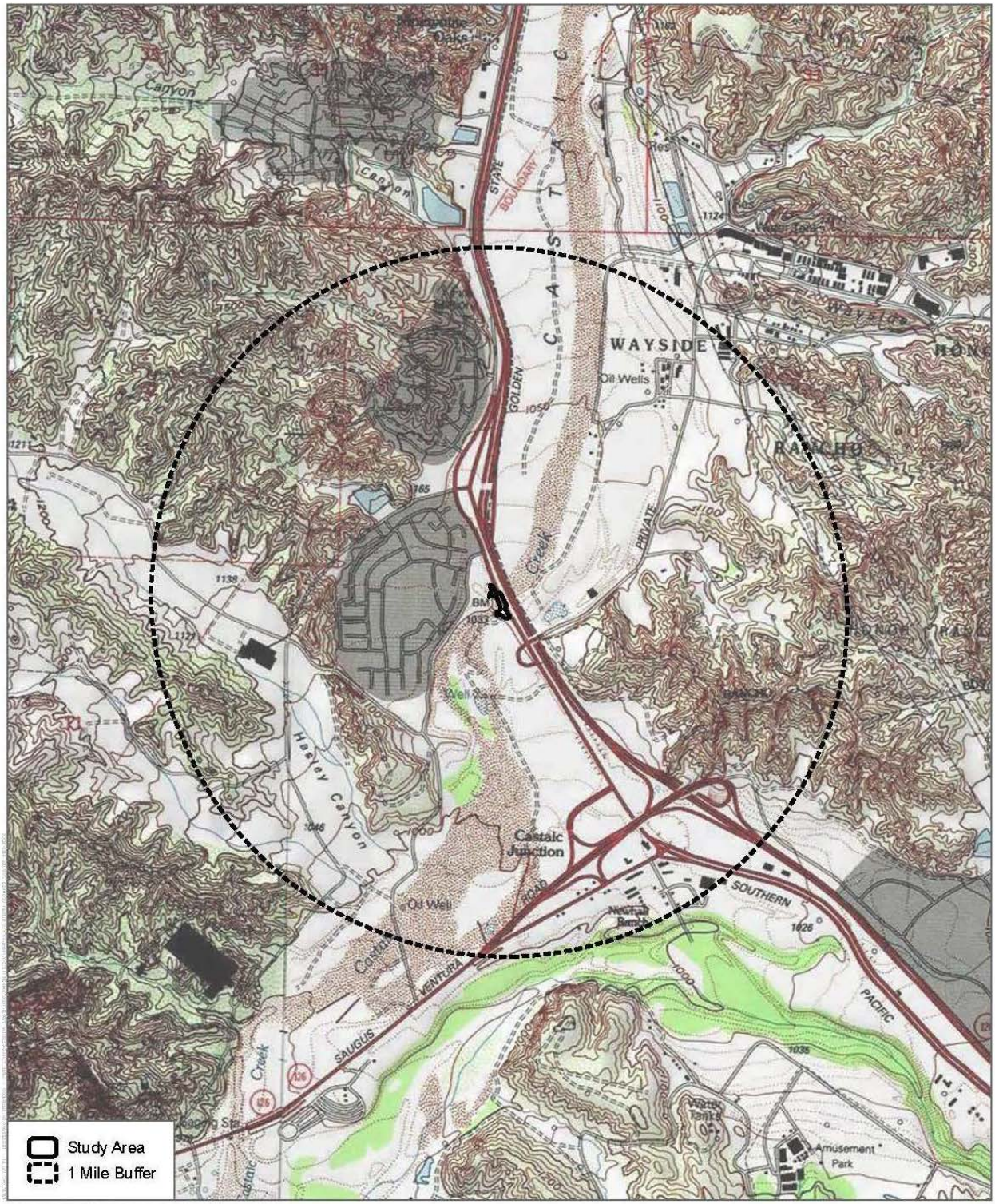
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Adriane Dorrler, BA
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DUDEK
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Attachments: *Figure 1*



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Records Search
Old Road Over Castaic Creek Project

38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Chief Mark Vigil, Chief
San Luis Obispo County Chumash Council
1030 Ritchie Road
Grover Beach, CA 93433

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Chief Vigil:

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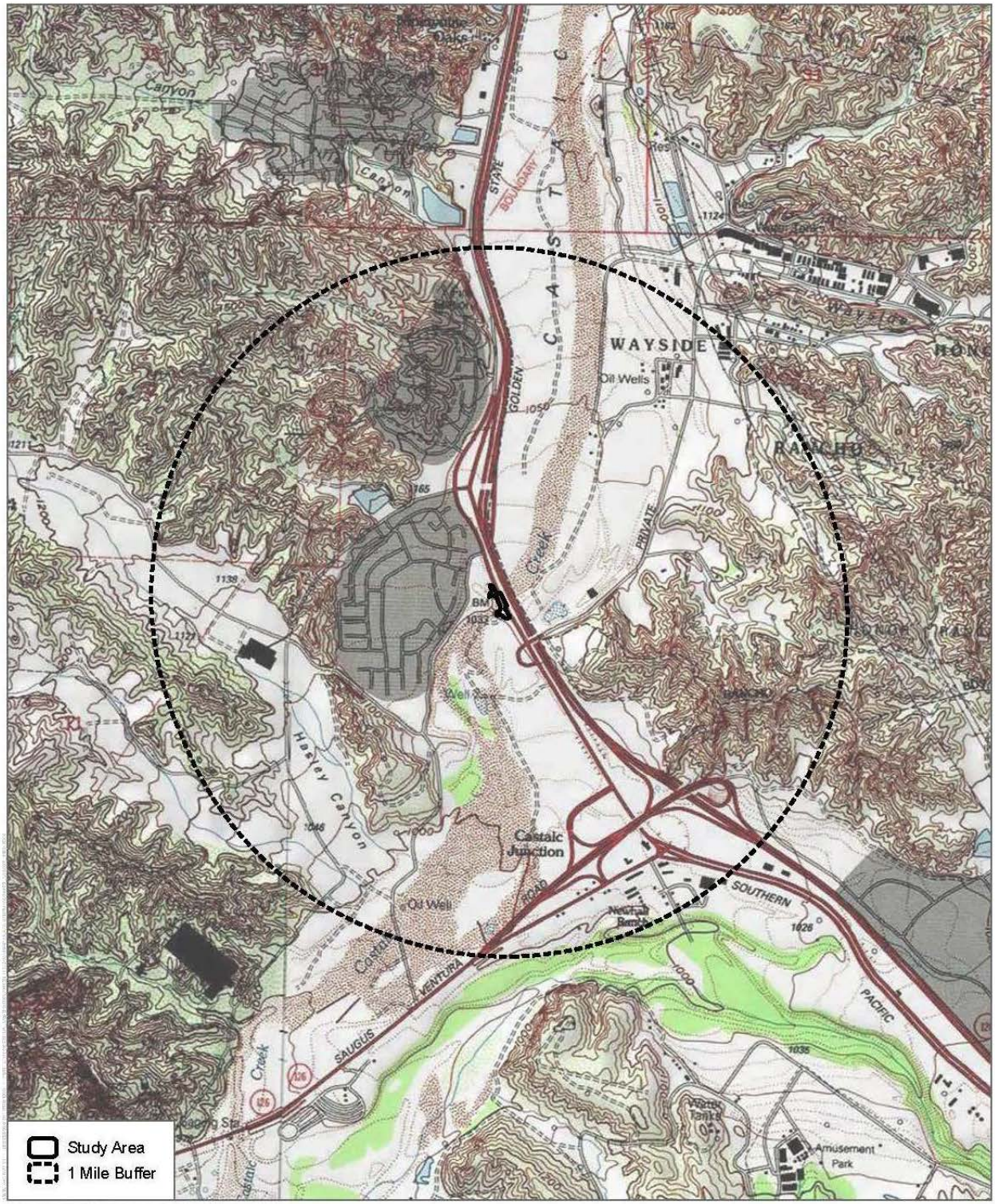
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Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: Figure 1



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Records Search
Old Road Over Castaic Creek Project

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PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Gino Altamirano, Chairperson
Coastal Band of the Chumash Nation
P.O. Box 4464
Santa Barbara, CA 93140

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

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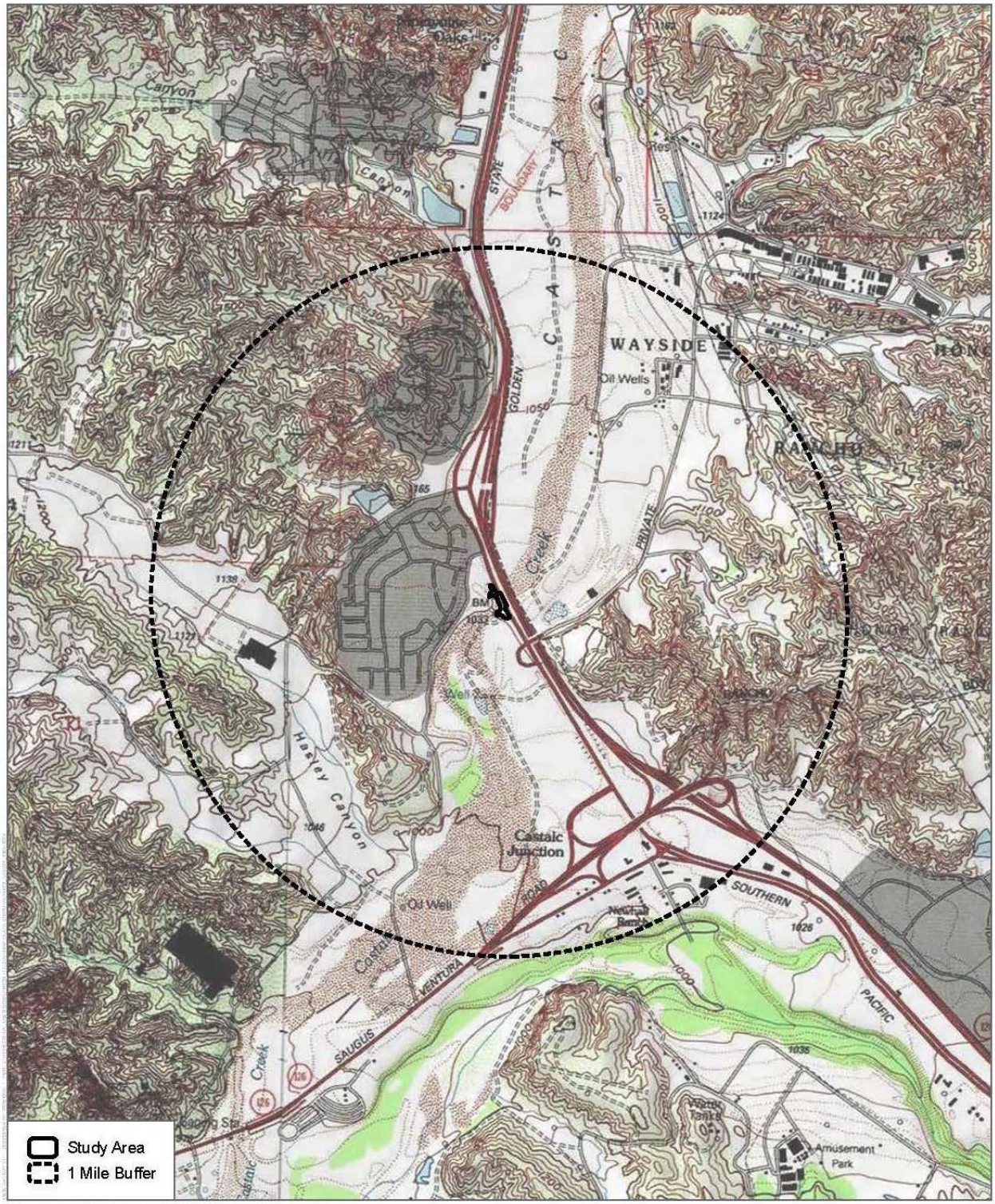
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Cell: 760.840.7556

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38 NORTH MARENGO AVENUE
PASADENA, CALIFORNIA 91101
T 626.204.9800 F 626.204.9834

August 13, 2019 11125.03

Mona Tucker, Chairperson
yak tikyu tikyu yak tilhini- NOrthern Chumash Tribe
660 Camino Del Rey
Arroyo Grande, CA 93420

Subject: ***Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California***

Dear Tucker:

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Sincerely,

A. Dorrler

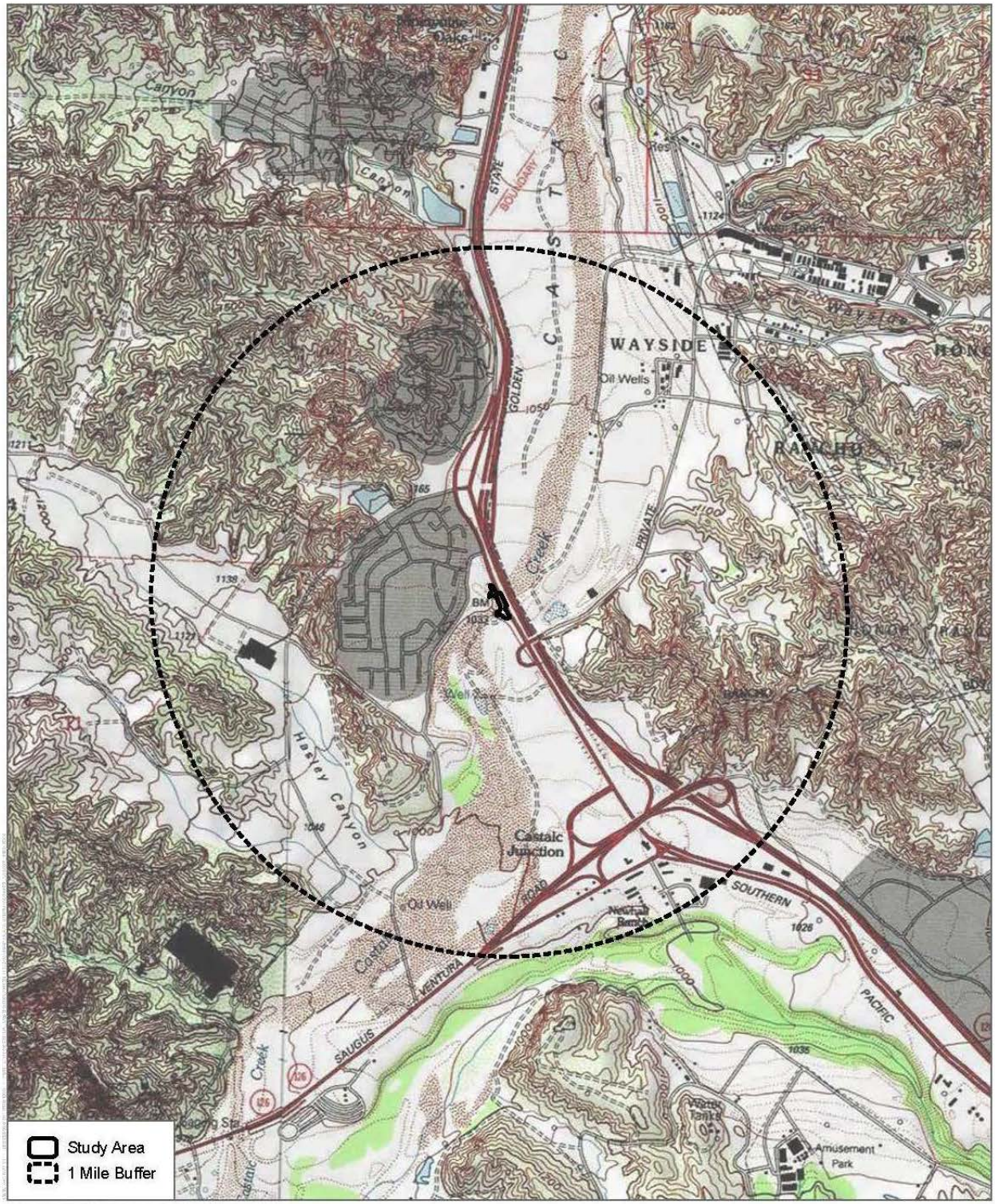
Adriane Dorrler, BA
Associate Archaeologist

DUDEK
Cell: 760.840.7556

Attachments: *Figure 1*

Tucker:

Subject: *Old Road Over Castaic Creek Project, Unincorporated Community of Val Verde, Los Angeles County, California*



SOURCE: USGS 7.5-Minute Series Newhall & Val Verde Quadrangles
Township 4N; Range 16W, 17W; Sections 1, 2, 6, 7, 11, 12, 13, 14, 18

0 1,000 2,000 Feet
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DUDEK

Records Search
Old Road Over Castaic Creek Project

Appendix D

Preliminary Environmental Site Assessment

DUDEK

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MEMORANDUM

To:	Albert Anidi, Los Angeles County Department of Public Works
From:	Glenna McMahon and Audrey Herschberger, Dudek, Hydrogeology and Hazardous Waste Group
Subject:	Preliminary Environmental Site Assessment for The Old Road Over Castaic Creek Project
Date:	May 2019
Attachments:	Figure 1: Project Site Attachment A – EDR Report Attachment B – Historic Aerial Photographs Attachment C – Historic Topographic Maps

This Preliminary Environmental Site Assessment (ESA) was conducted for The Old Road Over Castaic Creek (proposed project), in the community of Val Verde, which is located in unincorporated Los Angeles County. The project site lies within Castaic Valley just north of the junction where Castaic Creek merges with the Santa Clara River. The project site crosses Castaic Creek, a seasonal waterway, which runs northeast to southwest in this area. The project site is currently an existing concrete bridge, constructed in 1931. The existing bridge is 247 feet long and 35 feet wide, and is the Old Road right-of-way. The proposed project would seismically retrofit the existing bridge. The project site is shown on Figure 1 and encompasses the proposed construction area and staging areas.

The objective of this Preliminary ESA is to determine if there are any potential environmental concerns to the proposed project related to hazardous materials/waste. This Preliminary ESA consists of a review and summary of regulatory agency records and historical aerial photographs. This Preliminary ESA is not a complete Phase I ESA as described in ASTM 1527-13.

PHYSICAL SETTING

The project site is located in the foothills of the Sierra Pelona Mountains. The ground surface elevation of the creek bed, at the project site, is at an average elevation of approximately 1,020 feet above mean sea level (msl). The creek banks are lined with heavy rock. The existing approach embankments are at an approximate surface elevation of 1,035 feet above msl. Surrounding land uses include residential, commercial, parking, vacant land, and institutional uses. The I-5 Freeway

is located immediately east of the project site and runs parallel to The Old Road in this area. Surface parking and restaurant uses are located northwest of the project site. The North County Correctional Facility is located east of the site. Vacant land and single-family residential uses are located north and south of the project site.

Geological information was obtained from the California Soil Resource Lab online mapping system (SoilWeb 2019). The project site is on the bridge and adjacent dirt shoulders of The Old Road and within the Castaic Creek bed, which is underlain by Riverwash soils. The embankments on either side of the riverwash are underlain by Cortina sandy loam and Hanford sandy loam. The National Wetlands Inventory (NWI 2019) identifies Castaic Creek as an intermittent, seasonally flooded streambed. Dudek consulted the California Department of Water Resources Groundwater Management Data and Tools website (Water Resources 2019). Two irrigation wells were identified within a one mile radius of the project site. Groundwater has been reported at approximately 30 feet below ground surface in near proximity of the creek bed.

Dudek completed a search for oil and gas wells within one mile of the project site (DOGGR 2019). The project site lies within the southwestern corner of the Honor Rancho oil and gas field. Honor Rancho is a naturally occurring underground natural gas storage reservoir. The nearest active well in this field is a gas storage well, located approximately 0.75 miles east of the project site. Multiple dry plugged holes are located within one quarter mile of the project site. Honor Rancho is owned and operated by SoCalGas (SoCalGas 2019). Castaic Junction (ABD) wellfield is located approximately one mile south of the project site. The entire field consists of plugged oil and gas or injector wells (DOGGR 2019).

REGULATORY RECORDS

A search of regulatory records was conducted by Environmental Data Resources (EDR) on April 24, 2019 (EDR Report, Attachment A). The search was conducted for the project site, and includes a quarter mile, half mile, and one mile search radius as defined in the records review requirements of the ASTM 1527-13 standard. The EDR search includes Cortese List databases as defined by Government Code 69562.5. The EDR Report gives a listing of sites within the defined search radii that are listed on one or more environmental regulatory databases. Information in these listings includes the site name, location of the site relative to the project site, regulatory database listing, and the status of the listed site.

A total of six sites were identified in the EDR Report. Some of the sites were identified in more than one regulatory database. The regulatory databases identified are summarized in the EDR Report (Attachment A).

Dudek reviewed the listings, the distance from the project site, known environmental conditions (e.g. groundwater depth and flow direction), and determined if these listings are considered potential environmental concerns to the proposed project. Table 1 summarizes the case listings identified. For listings not adjacent to the project site, the distance from the project site is shown below the address.

Table 1
Project Site Regulatory Database Listings

Business Name, Address	Database(s)	Details	Potential Environmental Concern
Dixxie Diesel Truck Stop 29471 The Old Road (adjacent to the north)	Hist UST SWEEPS UST LUST Hist Cortese	This site was formerly a truck stop. Based on historical aerial photographs, the site was developed from at least 1952 until the buildings were removed in approximately 1994. Records indicate at least four underground storage tanks (USTs), but up to five USTs may have been onsite at one time. A leaking UST (LUST) was reported on the site in 1987. Following remediation with oversight by Los Angeles County Department of Public Works, the site received regulatory closure in 1993. Reportedly, groundwater was affected. Additional information for this site is discussed in the State Agency Files section of this document.	No (see discussion in State Agency Files section of this report)
Halsey Cleaners 27305 Live Oak Road (520 feet to the north)	EDR Hist Cleaner	This site has been a dry cleaning plant since at least 1996. Historically, dry cleaning facilities have used large amounts of solvents, such as tetrachloroethylene (PCE), and unauthorized releases are not uncommon. There is no cleanup file associated with this listing, thus, it is assumed that there are presently no adverse impacts that would impact the project site.	No
Sunvair, Inc. 29145 The Old Road (1,130 feet to the south)	RCRA-LQG	This site generates large quantities of hazardous wastes associated with site operations. No violations or cleanup actions are reported.	No
Former Shell Station 29660 The Old Road (1,850 feet to the north)	LUST	A LUST was reported at this site in 2005. According to a 2007 groundwater monitoring report (RTFA 2007), a gasoline service station occupied the site from approximately 1969 to 1979. In 2005, low concentrations of gasoline hydrocarbons were identified in deep soils and in groundwater. In the year of subsequent groundwater monitoring, no hydrocarbons were identified in the monitoring wells installed on the site. The regulatory agency determined no further action was necessary for the site. Based on the available information and distance from the project site, it is unlikely this site has impacted the environmental conditions of the project site.	No

Table 1
Project Site Regulatory Database Listings

Business Name, Address	Database(s)	Details	Potential Environmental Concern
LA Co Sheriff, PJP Honor LA Co Internal Services Dept. 29300 The Old Road N (1,620 feet to the north)	LUST SWF/LF CHMIRS EMI Financial Assurance	Following a UST removal at this site in 2006, contaminated soils were identified. Groundwater was reportedly not affected. The site received closure in 2017 (SWRCB 2017). The site also holds an air quality permit (EMI database). The SWF/LF database listing identifies the Pitchess Honor Ranch Landfill (SWIS Number 19-AA-0057), a permitted inactive landfill, located at this address. However the landfill is actually located greater than one mile east of the project site. The landfill also holds an air quality permit (EMI database). The CHMIRS database identifies a release was reported to the California Office of Emergency Service (CalOES) in 1990. Details were not reported. Based on the lack of information, regulatory status, and distance from the project site, it is unlikely this site has impacted the environmental conditions of the project site.	No
ITT Aerospace Controls 28150 Industry Drive (3,520 feet to the west)	RCRA-SQG EnviroStor AST FINDS ECHO EMI HAZNET LA Co. HMS NPDES LA Co. Site Mitigation CIWQS	This site has permits for hazardous waste generation, ASTs, air emission, water discharge, and hazardous materials related to business operations. There are no reported violations associated with these permits. LA County HHMD Site Mitigation unit has a case on file, dated 2011. The site listing reports the case as "abated". No other cleanup files are associated with this listing. Based on the information above and distance from the project site, it is unlikely this site has impacted the environmental conditions of the project site.	No

STATE AGENCY FILES

The Los Angeles County Department of Public Works (Public Works) was the lead agency overseeing the LUST cleanup at the Dixxie Diesel Truck Stop (Dixxie), as discussed in Table 1. Dudek requested information from Public Works regarding Dixxie. Public Works sent multiple files related to the LUST and hazardous material management at Dixxie. Information obtained from Public Works included the following:

- In 1988, Public Works cited Dixxie with illegal discharges of industrial waste water to Castaic Creek, which were generated while washing the dispensing pump area and parking lot. Improper storage of 55-gallon drums of waste oil and diesel were also noted. The notice was provided to Dixxie on June 28, 1988. No additional information was noted.

- Three 10,000-gallon diesel USTs were permitted in August 1986. A 1,000-gallon gasoline UST was also present on the site, but was not permitted. During removal of the tanks (discussed below), the gasoline tank was back-permitted and fines were paid.

- In 1987, a 1,000-gallon waste oil UST was determined to be leaking; multiple notices of violation were issued. The tank was permitted for removal, and subsequent remedial actions were proposed.

- In 1990, the three 10,000-gallon diesel tanks (permitted in 1986) and 1,000-gallon gasoline tank were permitted for removal. Based on available site drawings, the tanks were located near the northern portion of the site, and associated fuel pumps were located above the tanks.

- Upon discovery of petroleum contamination, the tank pit was over excavated to remove contaminated soils. In 1991, Public Works determined that the soil "had been remediated to the maximum extent possible." However, the excavation reached groundwater (approximately 40 feet below ground surface (bgs), and some contamination (up to 6,900 milligrams per kilogram (mg/kg) of diesel) remained onsite near the groundwater interface. Therefore, Public Works required follow up groundwater monitoring. Some of the diesel contaminated soil was bioremediated and used as backfill, while the remaining contaminated soil was manifested and removed from the site for offsite disposal. Clean fill material was brought in to finish backfilling the excavation.

- Groundwater monitoring was conducted on a quarterly basis in 1992 and 1993. Groundwater was reported between 8 and 19 feet bgs, and varied significantly for each of the monitoring events. Groundwater flow was determined to be southward towards Castaic Creek. The final monitoring event (first quarter 1993) identified benzene, toluene,

ethylbenzene, and xylene (BTEX) in the groundwater at low concentrations (0.005, 0.022, 0.005, and 0.030 mg/liter (mg/L), respectively). BTEX was detected in all three monitoring wells, including the background well. BTEX was not detected during the previous monitoring events. It was concluded that the seasonal rise in groundwater may have caused residual soil contamination to leach into the groundwater, or there was a potential for an upgradient, offsite source. It was also concluded that groundwater levels will likely drop due to seasonal variations, and the BTEX concentrations would drop to below action levels, as shown in previous sampling events (CE 1993).

- Public Works determined the contamination identified in the groundwater was not significant. The site received closure in October 1993 (Public Works 1993).

The proposed project includes approximately 7 feet of soil excavation around the existing concrete pile extensions at each pier. This excavation may encounter groundwater, exposing construction workers and the nearby Castaic Creek. While volatile organic compounds generally naturally degrade over time, this has not been confirmed at the Dixxie site. Therefore, there is a potential for contaminated groundwater to be encountered.

ONLINE REGULATORY DATABASES

Dudek consulted available online databases that provide environmental information on facilities and sites in the State of California. Table 2 provides a summary of the databases searched.

Table 2
Online Database Listings

Database	Details
CalEPA https://siteportal.calepa.ca.gov/nsite/	The CalEPA Regulated Site Portal is a website that combines data about environmentally regulated sites and facilities in California into a single, searchable database and interactive map. Data sources include California Environmental Reporting System (CERS), EnviroStor, GeoTracker, California Integrated Water Quality System (CIWQS), and Toxics Release Inventory (TRI).
Department of Toxic Substance Control (DTSC) EnviroStor https://www.envirostor.dtsc.ca.gov/	The DTSC's data management system for tracking cleanup, permitting, enforcement, and investigation efforts at hazardous waste facilities and sites with known contamination or sites where there may be reasons for further investigation.
Regional Water Quality Control Board (RWQCB) GeoTracker http://geotracker.waterboards.ca.gov/	The California RWQCB's data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater. GeoTracker contains records for sites that require cleanup, various unregulated projects, and permitted facilities. Sites include LUST, Department of Defense, Cleanup Program, Irrigated Lands, Oil and Gas Production, Permitted USTs, and Land Disposal Sites.

Table 2
Online Database Listings

Database	Details
National Pipeline Mapping System https://www.npms.phmsa.dot.gov/	The National Pipeline Mapping System (NPMS) Public Map Viewer is a web-based application designed to assist the general public with displaying and querying data related to gas transmission and hazardous liquid pipelines, liquefied natural gas plants, and breakout tanks under Department of Transportation Pipeline and Hazardous Material Safety Administration jurisdiction.

Cal EPA

Twenty two sites were identified on the CalEPA website within one mile of the project site. The sites listed have permitted chemical storage, aboveground storage tanks (ASTs), generate hazardous wastes, and have air and/or water discharge permits. Dudek reviewed these listings, and determined that, while violations are documented for some of the sites, the violations are administrative in nature, and do not necessarily indicate a release of hazardous substances or petroleum products to the environment.

EnviroStor

ITT Aerospace Controls was identified within one mile of the project site, as discussed in Table 1.

GeoTracker

Six LUST sites were identified within one mile of the project site. These sites were not identified in the EDR Report, as the ASTM standard search distance for LUST sites is only one half mile. These six sites are all closed, with cleanup status complete, and are greater than one half mile from the project site. Based on this information, it is unlikely these sites have impacted the environmental conditions of the project site.

The LUST files identified in the EDR report were cross-referenced on GeoTracker. These sites did not georeference on GeoTracker within a one mile radius of the project site. Additional address checks by Dudek confirmed their location as described in Table 1.

National Pipeline Mapping System

One active natural gas transmission line, two active crude oil pipelines, and three sections of permanently abandoned crude oil transmission line cross the project site north-south parallel to The Old Road. The natural gas transmission line is owned by Southern California Gas Company.

One active crude oil pipelines is owned by Torrance Valley Pipeline Company, the other is owned by Plains Pipeline, L.P.

OTHER ENVIRONMENTAL ASSESSMENTS AND CONDITIONS

Previous Phase I ESA

Dudek was informed that a Phase I ESA was previously conducted on the project site. However, as of the date of this report, a copy of this Phase I ESA has not been provided.

Aerially Deposited Lead

The historical use of leaded gasoline has caused aerially deposited lead (ADL) to be distributed along older roadways, resulting in elevated lead concentrations in soils. Some of these lead concentrations have been found to exceed hazardous waste levels, especially on roads that have had high vehicle emissions from large traffic volumes or congestion, generally prior to 1986 when leaded gasolines were used. The Old Road has been a traffic-bearing road since the bridge was constructed in 1931. In addition, Highway 99 (now I-5) has been a traffic-bearing road adjacent to the project site since approximately 1928.

Caltrans and the DTSC entered in to a Soil Management Agreement for ADL, effective July 1, 2016 (Agreement; DTSC 2016a), which allows ADL-contaminated soils to be reused on project sites while maintaining protection of human health and the environment.

City and County roads are not covered under the Agreement. However, separate written approval would be required from DTSC for reuse of ADL-impacted soil above the screening level of 80 mg/kg for local roadway projects and would be based upon site specific conditions (DTSC 2016b).

Lead-based Paint and Asbestos-Containing Materials

Asbestos was widely used in a variety of building materials up until the 1980s. This includes components used for bridge construction, such as caulking, cement, fireproofing materials, and tar. Additionally, yellow traffic paint and yellow thermoplastic stripes contain lead chromate. The lead and chromium concentrations in older yellow paint and yellow thermoplastic stripes are high enough to make these materials hazardous wastes when they are removed (Caltrans 2015).

Based on the age of the bridge (1931), there is a potential for the building materials to contain asbestos and/or lead-based paint.

AERIAL PHOTOGRAPHS

Historical aerial photographs (Attachment B) were reviewed to determine if there was evidence of recognized environmental conditions on the project site. Historical aerial photographs from 1928, 1940, 1947, 1952, 1969, 1972, 1979, 1981, 1989, 1994, 2002, 2005, 2009, 2012, and 2016 were reviewed. Observations are presented in Table 3.

Table 3
Historical Aerial Photograph Review

Date	Observations
1928	The main road crosses Castaic Creek south of the project site, crossing through the southern tip of the project site. Castaic Creek is a wide wash running northeast-southwest across the landscape. The areas on either side of the creek appear to be used for agricultural or undeveloped.
1940	The old bridge south of the project site has been removed. A new bridge crosses through the project site. The embankments of the new bridge appear to have narrowed the creek flow beneath the project site. An unimproved roadway/driveway leads from The Old Road south of the project site northward into the southern side of the project site, on the south side of Castaic Creek. The surrounding areas appear to be used for agricultural.
1947	The southern side of the project site appears to have a manmade landing on the edge of Castaic Creek. The landing has a roadway that leads from The Old Road. The remaining areas appear unchanged as compared to the 1940 aerial photograph.
1952	A second road crosses Castaic Creek, to the east of and parallel to the existing bridge. It appears a second bridge has been constructed adjacent to the existing bridge. The property on the north side of the project site contains two structures that are located to the north of the project site. There is an apparent dirt roadway/driveway that leads from the structures southward to the north end of the project site. The areas on either side of the bridge appear to be used for agriculture, with undeveloped areas alongside the creek.
1969	A roadway is observed leading from the north into the project site on the north side of Castaic Creek. The road appears to turn eastward onto the bank of the creek. Interstate 5 (I-5) is now a divided highway, with two parallel bridges crossing Castaic Creek to the east of the Old Road bridge and project site. I-5 overpasses are observed to the south and to the north. The northern overpass appears to have a service station on the west side, approximately 1500 feet north of the project site. The surrounding areas appear primarily agricultural.
1972	Castaic Creek appears dry. Development on the project site appears similar as compared to the 1969 aerial photograph. The area appears otherwise similar to the 1969 aerial photograph.
1979	A third building is present on the northern adjacent property, and the northern adjacent property appears to be commercial, based on the number of cars and trucks parked on the location. Additional buildings are observed constructed to the northwest in a former agricultural field, west of The Old Road. The remaining areas appear agricultural. The project site appears similar to the 1972 aerial photograph.
1981	A large parking lot is located to the southeast, on the east side of I-5. The remaining areas appear similar to the 1979 aerial photograph.
1989	A large residential development is located west of the project site, starting approximately 250 feet to the west. A second residential development is observed to the north, approximately 1500 feet north of the project site. The apparent service station located at the I-5 interchange to the north is no longer observed. The parking lot to the southeast of the project site, as observed in the 1981 aerial photograph, is now paved. The northern adjacent property appears to be a commercial truck stop.

Table 3
Historical Aerial Photograph Review

Date	Observations
1994	New graded land is observed adjacent to the paved parking lot to the southeast of the project site. A small collection of buildings is observed in the east corner. The truck stop north of the project site is no longer present; the structures have been removed. The remaining areas appear similar to the 1989 aerial photograph.
2002	The project site appears unchanged as compared to the 1994 aerial photograph. Commercial development is observed to the south, on the west side of I-5. Residential development has increased to the northwest. Castaic Creek appears dry.
2005	Three apparent retail structures are observed on the northern adjacent property, with a central parking lot. The project site appears unchanged as compared to the 2002 aerial photograph. Commercial development to the south has increased, and a new commercial/retail structure with associated paved parking lot is observed to the north, at the northern I-5 overpass. Agricultural land is observed to the north and northeast, on the east side of I-5.
2009	Two traffic circles have been constructed at the northern I-5 overpass; construction staging is observed in the adjacent field to the east. The project site and other surrounding areas appear similar to the 2005 aerial photograph.
2012	The property south of and adjacent to the project site is now a paved parking lot. Access to the lot appears to be from the south, opposite the project site. The project site and other surrounding areas appear similar to the 2009 aerial photograph.
2016	No changes are apparent as compared to the 2012 aerial photograph.

TOPOGRAPHIC MAPS

Historical topographic maps (Attachment C) were reviewed to determine if there was evidence of recognized environmental conditions on the project site. Historical aerial photographs from 1903, 1929, 1931, 1940, 1941, 1943, 1947, 1952, 1969, 1974, 1988, 1991, 1995, and 2012 were reviewed. Observations are presented in Table 4.

Table 4
Historical Topographic Map Review

Date	Observations
1903	The project site appears undeveloped. Castaic Creek appears to be a dry wash with a narrow intermittent stream flowing through. The creek, and project site, are located within Castaic Valley. A road is located to the east, which transects north-south across the area and crosses the creek just below the project site. A railroad is located approximately one mile to the south. Otherwise, the surrounding areas appear undeveloped.

Table 4
Historical Topographic Map Review

Date	Observations
1929, 1931	Highway 99 (currently I-5) is now present, and transects the project site. The Highway 99 bridge is located within the project site. An elevation benchmark denotes the project site at 1037 feet above mean sea level amsl at the southern embankment. Castaic Creek is narrowed, and crosses beneath the bridge. The former road is denoted as an unimproved roadway, and no longer has a bridge crossing the creek. Two wayside farms are denoted to the north, within the Castaic Creek bed and Castaic Valley. Castaic Siding is denoted approximately one mile to the south, at the intersection of the highway and the railroad.
1940	The area and project site appear unchanged as compared to the 1929 and 1931 topographic map.
1941	A structure is denoted on the east side of the highway, near the south bank of Castaic Creek, just east of the project site. Castaic Forest patrol station is located approximately 0.75 miles to the north of the project site. Newhall Ranch is located at the intersection of Highway 99 and the railroad, to the northeast of the intersection. The project site appears similar to the 1940 topographic map.
1943, 1947	The area and project site appear unchanged as compared to the 1941 topographic map.
1952	Highway 99 has expanded into a two lane highway, with a second bridge crossing Castaic Creek to the east of the existing bridge. A tank farm and oil wells are located on the eastern bank of Castaic Creek, approximately 0.6 miles north-northeast of the project site, within an area denoted as Wayside Honor Rancho. An oil well is also located within Castaic Creek approximately one mile south-southwest of the project site. A structure is observe on the northern adjacent property.
1969	Multiple interchanges are present coming off of Highway 99, including a large interchange at Castaic Junction to the south, a small exit approximately 0.25 miles to the south of the project site that leads northeastward to Wayside Honor Rancho, and an interchange approximately 0.50 miles to the north of the project site. The project site appears unchanged as compared to the 1952 topographic map.
1974	The project site is unmapped.
1988	A residential development is observed to the north and west of the project site. The project site appears unchanged as compared to the 1969 topographic map. New development is observed to the south and east, surrounding the existing development of Castaic Junction and Wayside Honor Rancho. Castaic Creek is denoted as a dry, wide wash.
1991	The project site is unmapped.
1995	The buildings on the northern adjacent site are no longer observed. Residential development increased to the north and northwest, along the west side of Highway 99 (I-5). The project site appears unchanged as compared to the 1988 topographic map.
2012	The project site and surrounding area features appear similar as compared to the 1995 topographic map.

SUMMARY AND CONCLUSIONS

The project site lies within Castaic Valley just north of the junction where Castaic Creek merges with the Santa Clara River. The project site crosses Castaic Creek, a seasonal waterway, which runs northeast to southwest in this area. The project site is currently occupied by an existing concrete bridge, constructed in 1931. The existing bridge is 247 feet long and 35 feet wide, and is The Old Road right-of-way. The proposed project would seismically retrofit the existing bridge.

Government Code Section 65962.5 requires the California Environmental Protection Agency (Cal-EPA) to compile a list of hazardous waste and substances sites (Cortese List). While the Cortese List is no longer maintained as a single list, the following databases provide information that meet the Cortese List requirements:

1) List of Hazardous Waste and Substances sites from Department of Toxic Substances Control (DTSC) Envirostor database (Health and Safety Codes 25220, 25242, 25356, and 116395);

2) List of Leaking Underground Storage Tank (LUST) Sites by County and Fiscal Year from the State Water Resources Control Board (Water Board) GeoTracker database (Health and Safety Code 25295);

3) List of solid waste disposal sites identified by the Water Board with waste constituents above hazardous waste levels outside the waste management unit (Water Code Section 13273 subdivision (e) and California Code of Regulations Title 14 Section 18051));

4) List of "active" Cease and Desist Orders (CDO) and Cleanup and Abatement Orders (CAO) from the Water Board (Water Code Sections 13301 and 13304); and

5) List of hazardous waste facilities subject to corrective action pursuant to Section 25187.5 of the Health and Safety Code, identified by DTSC.

Multiple sites were identified on Cortese List databases within a one-mile radius of the project site. Table 1 details listings adjacent to the project site and listings that may impact the environmental conditions of the proposed project based on distance from the project site, known groundwater gradients, and status of the identified listing. The following site was determined to be a potential environmental concern:

- Former Dixxie Diesel Truck Stop. A LUST at the site resulted in soil and groundwater contamination. While the site received regulatory closure from Public Works in 1993, contamination remained on the site. As the site is adjacent to the project site to the north, and groundwater is reported to flow southward, there is a potential for this contamination to impact the project site.

In addition, the following environmental conditions were identified that are a potential environmental concern to the project site:

- The historical use of leaded gasoline has caused aerially deposited lead (ADL) to be distributed along older roadways, resulting in elevated lead concentrations in soils. Some of these lead concentrations have been found to exceed hazardous waste levels, especially on roads that have had high vehicle emissions from large traffic volumes or congestion,

generally prior to 1986 when leaded gasolines were used. The Old Road has been a traffic-bearing road since the bridge was constructed in 1931. In addition, Highway 99 (now I-5) has been a traffic-bearing road adjacent to the project site since approximately 1928. Therefore, there is a high potential for ADL to be present at the project site.

- Based on the age of the bridge (1931) there is a high potential for asbestos-containing materials and lead-based paints to be present within the project site. The yellow traffic stripes have the potential for both lead and chromium to be present in levels such that the residues could be classified as a hazardous waste.

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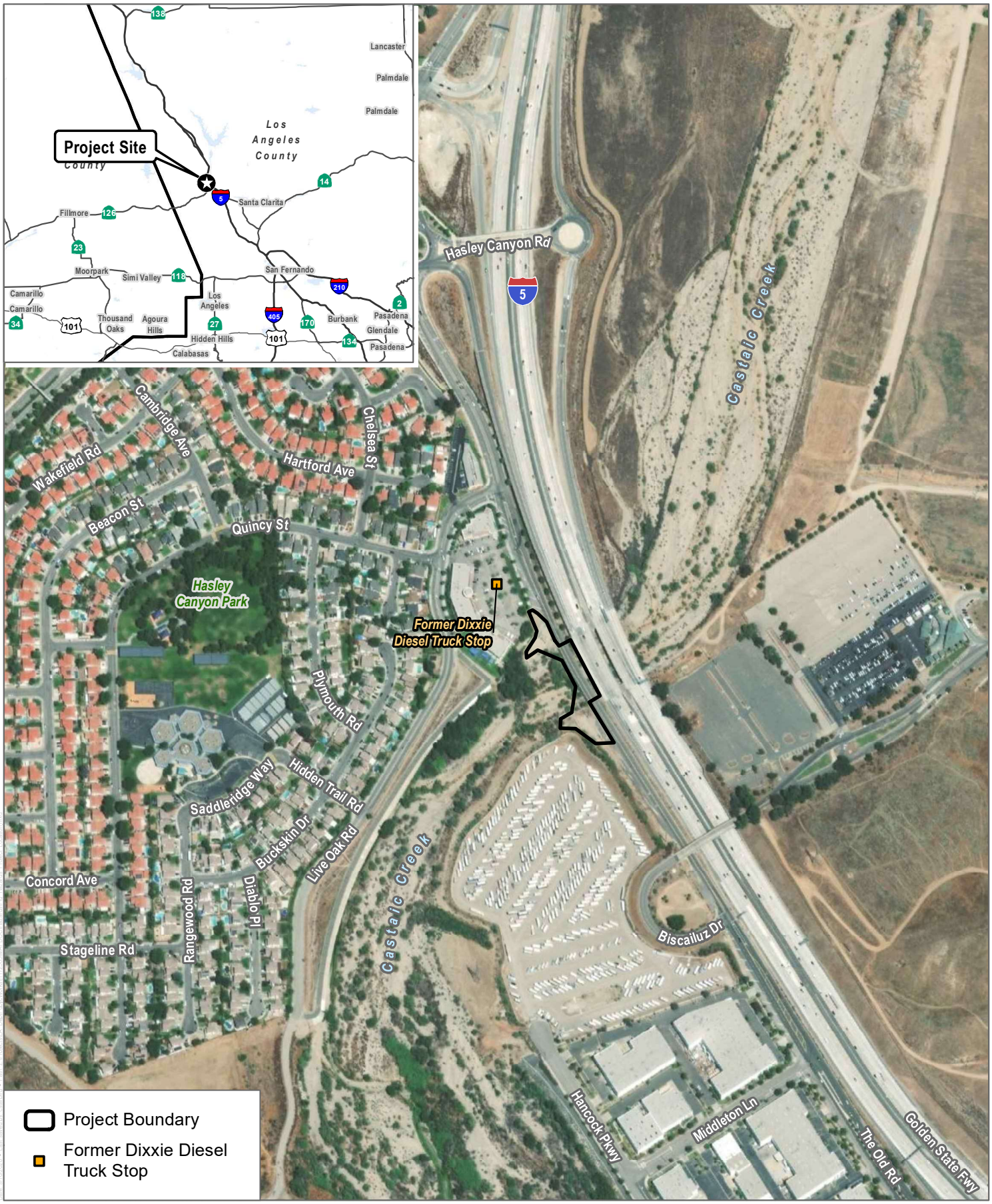
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FIGURES

Figure 1: Project Site



SOURCE: Esri, Digital Globe 2017; Open Street Map 2019

DUDEK

0 250 500 Feet

FIGURE 1

Project Site

The Old Road Over Castaic Creek Project

ATTACHMENT A

EDR Report

LADWP Old Road Bridge
The Old Road and Castaic Creek
Castaic, CA 91384

Inquiry Number: 5631132.2s
April 24, 2019

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

THE OLD ROAD AND CASTAIC CREEK
CASTAIC, CA 91384

COORDINATES

Latitude (North):	34.4513680 - 34° 27' 4.92"
Longitude (West):	118.6151760 - 118° 36' 54.63"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	351625.0
UTM Y (Meters):	3813192.0
Elevation:	1028 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5636847 NEWHALL, CA
Version Date:	2012
West Map:	5636837 VAL VERDE, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
THE OLD ROAD AND CASTAIC CREEK
CASTAIC, CA 91384

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	DIXXIE DIESEL TRUCK	29471 THE OLD ROAD	HIST UST	Higher	378, 0.072, NNW
A2	DIXXIE DIESEL / C/O	29471 THE OLD RD	SWEEPS UST	Higher	378, 0.072, NNW
A3	DIXIE DIESEL STATION	29471 THE OLD	LUST, HIST CORTESE	Higher	378, 0.072, NNW
A4	HASLEY CLEANERS	27305 LIVE OAK RD	EDR Hist Cleaner	Higher	608, 0.115, NNW
5	SUNVAIR, INC.	29145 THE OLD ROAD	RCRA-LQG	Lower	1278, 0.242, SSE
6	FORMER SHELL STATION	29600 THE OLD ROAD	LUST	Higher	1978, 0.375, NNW
B7	LA CO SHERIFF PJP HO	29300 THE OLD RD N	LUST	Lower	2425, 0.459, SE
B8	LA CO. INTERNAL SERV	29300 THE OLD RD	SWF/LF, CHMIRS, EMI, Financial Assurance	Lower	2425, 0.459, SE
B9	LA CO SHERIFF PJP HO	29300 THE OLD RD	LUST, HIST UST	Lower	2425, 0.459, SE
10	ITT AEROSPACE CONTRO	28150 INDUSTRY DR	RCRA-SQG, ENVIROSTOR, AST, FINDS, ECHO, EMI,...	Higher	3550, 0.672, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ..... National Priority List
Proposed NPL ..... Proposed National Priority List Sites
NPL LIENS ..... Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ..... National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ..... Federal Facility Site Information listing
SEMS ..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG ..... RCRA - Small Quantity Generators
RCRA-CESQG ..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ..... Land Use Control Information System
US ENG CONTROLS ..... Engineering Controls Sites List
US INST CONTROL ..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
CPS-SLIC..... Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing
VCP..... Voluntary Cleanup Program Properties

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT..... Waste Management Unit Database
SWRCY..... Recycler Database
HAULERS..... Registered Waste Tire Haulers Listing
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations
ODI..... Open Dump Inventory
IHS OPEN DUMPS..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN..... Key Areas of Concerns in Los Angeles County
US HIST CDL..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites..... Historical Calsites Database
SCH..... School Property Evaluation Program
CDL..... Clandestine Drug Labs
Toxic Pits..... Toxic Pits Cleanup Act Sites

CERS HAZ WASTE ..... CERS HAZ WASTE
US CDL ..... National Clandestine Laboratory Register
PFAS ..... PFAS Contamination Site Location Listing

Local Lists of Registered Storage Tanks

CA FID UST ..... Facility Inventory Database
CERS TANKS ..... California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites

US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
ECHO ---- Enforcement & Compliance History Information
UXO ---- Unexploded Ordnance Sites
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
FUELS PROGRAM ---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan
Cortese ---- "Cortese" Hazardous Waste & Substances Sites List
CUPA Listings ---- CUPA Resources List
DRYCLEANERS ---- Cleaner Facilities
EMI ---- Emissions Inventory Data
ENF ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HAZNET ---- Facility and Manifest Data
ICE ---- ICE
LOS ANGELES CO. HMS ---- HMS: Street Number List
HWP ---- EnviroStor Permitted Facilities Listing
HWT ---- Registered Hazardous Waste Transporter Database
MINES ---- Mines Site Location Listing
MWMP ---- Medical Waste Management Program Listing
NPDES ---- NPDES Permits Listing
PEST LIC ---- Pesticide Regulation Licenses Listing
PROC ---- Certified Processors Database
Notify 65 ---- Proposition 65 Records
LA Co. Site Mitigation ---- Site Mitigation List
UIC ---- UIC Listing
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
WIP ---- Well Investigation Program Case List
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---- Recovered Government Archive Solid Waste Facilities List

EXECUTIVE SUMMARY

RGA LUST---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/25/2019 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SUNVAIR, INC. EPA ID:: CAR000264721	29145 THE OLD ROAD	SSE 1/8 - 1/4 (0.242 mi.)	5	14

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/28/2019 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ITT AEROSPACE CONTRO	***28150 INDUSTRY DR***	***W 1/2 - 1 (0.672 mi.)***	***10***	***41***

Facility Id: 71003567
Status: Refer: Other Agency

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CO. INTERNAL SERV	***29300 THE OLD RD***	***SE 1/4 - 1/2 (0.459 mi.)***	***B8***	***25***
Database: SWF/LF (SWIS), Date of Government Version: 02/11/2019 Facility ID: 19-AA-0057 Operational Status: Inactive Regulation Status: Permitted				

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 4 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIXIE DIESEL STATION	***29471 THE OLD***	***NNW 0 - 1/8 (0.072 mi.)***	***A3***	***11***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Facility Id: I-12830 Status: Case Closed Global Id: T0603704004 Global ID: T0603704004				
FORMER SHELL STATION	29600 THE OLD ROAD	NNW 1/4 - 1/2 (0.375 mi.)	6	21
Database: LUST, Date of Government Version: 12/10/2018 Status: Completed - Case Closed Global Id: T0603768125				

Lower Elevation	Address	Direction / Distance	Map ID	Page
LA CO SHERIFF PJP HO	29300 THE OLD RD N	SE 1/4 - 1/2 (0.459 mi.)	B7	24
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: R-00351 Status: Leak being confirmed				

Global ID: T0603793066

LA CO SHERIFF PJP HO ***29300 THE OLD RD*** ***SE 1/4 - 1/2 (0.459 mi.)*** ***B9*** ***36***
Database: LUST, Date of Government Version: 12/10/2018
Status: Completed - Case Closed
Global Id: T0603793066

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIXXIE DIESEL / C/O Comp Number: 12830	29471 THE OLD RD	NNW 0 - 1/8 (0.072 mi.)	A2	10

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIXXIE DIESEL TRUCK Facility Id: 00000061324	29471 THE OLD ROAD	NNW 0 - 1/8 (0.072 mi.)	A1	9

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 HIST CORTESE site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DIXIE DIESEL STATION Reg Id: I-12830	***29471 THE OLD***	***NNW 0 - 1/8 (0.072 mi.)***	***A3***	***11***

EXECUTIVE SUMMARY

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Cleaner: EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within approximately 0.125 miles of the target property.

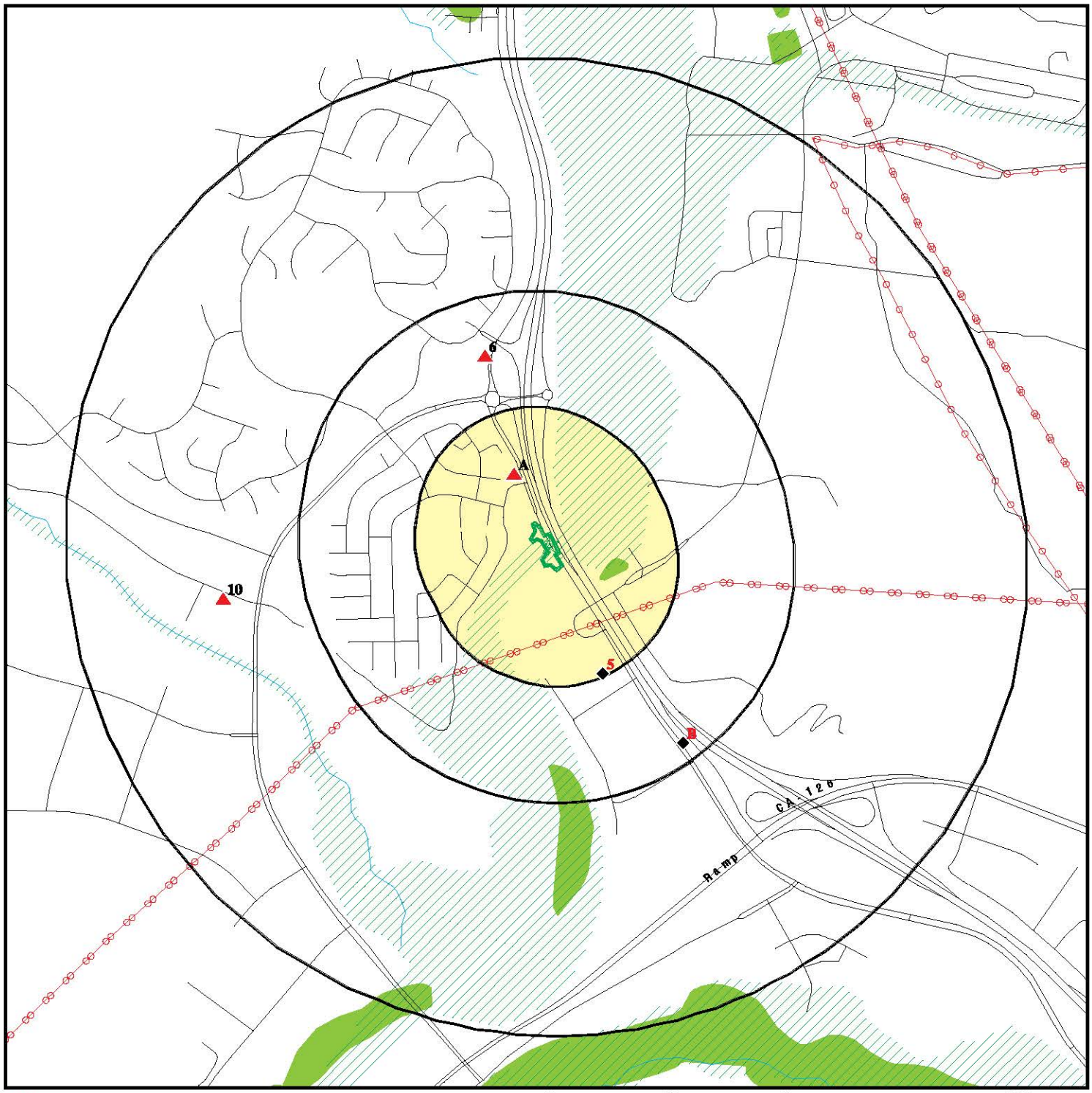
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HASLEY CLEANERS	27305 LIVE OAK RD	NNW 0 - 1/8 (0.115 mi.)	A4	13

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
HANGERS CLEANERS	DRYCLEANERS
HANGERS CLEANERS, BYOUNG LEE	DRYCLEANERS
FLOWSERVE CORPORATION	SEMS
BILL SMALLS MUD SUMP	SWF/LF

OVERVIEW MAP - 5631132.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	LADWP Old Road Bridge	CLIENT:	Dudek & Associates
ADDRESS:	The Old Road and Castaic Creek Castaic CA 91384	CONTACT:	Audrey Herschberger
LAT/LONG:	34.451368 / 118.615176	INQUIRY #:	5631132.2s
		DATE:	April 24, 2019 12:08 pm

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DETAIL MAP - 5631132.2S



0 1/16 1/8 1/4 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	LADWP Old Road Bridge	CLIENT:	Dudek & Associates
ADDRESS:	The Old Road and Castaic Creek Castaic CA 91384	CONTACT:	Audrey Herschberger
LAT/LONG:	34.451368 / 118.615176	INQUIRY #:	5631132.2s
		DATE:	April 24, 2019 12:13 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	0.001		0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	1	NR	NR	NR	1
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		1	0	3	NR	NR	4

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		1	0	NR	NR	NR	1
HIST UST	0.250		1	0	NR	NR	NR	1
CA FID UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	0.001		0	NR	NR	NR	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.001		0	NR	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		1	0	0	NR	NR	1
LOS ANGELES CO. HMS	0.001		0	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.001		0	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	0.001		0	NR	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		1	NR	NR	NR	NR	1
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	5	1	4	1	0	11

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
NNW
< 1/8
0.072 mi.
378 ft.

DIXXIE DIESEL TRUCK STOP 3
29471 THE OLD ROAD
SAUGUS, CA 91350

Site 1 of 4 in cluster A

HIST UST **U001567693**
N/A

Relative:
Higher

Actual:
1037 ft.

HIST UST:

File Number:	000279DC
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000279DC.pdf
Region:	STATE
Facility ID:	00000061324
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	DALE BATY
Telephone:	8188887532
Owner Name:	OLSEN GOLDEN HIGHWAY
Owner Address:	10636 SEPULVEDA BLVD.
Owner City,St,Zip:	MISSION HILLS, CA 91345
Total Tanks:	0005
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	2
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	003
Container Num:	3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	004
Container Num:	4
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor
Tank Num:	005
Container Num:	5
Year Installed:	Not reported

DIXXIE DIESEL TRUCK STOP 3 (Continued) **U001567693**

Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

A2 **DIXXIE DIESEL / C/O NATE OLSON** **SWEEPS UST** **S106925423**
NNW **29471 THE OLD RD** **N/A**
< 1/8 **SAUGUS, CA 91350**
0.072 mi.
378 ft. **Site 2 of 4 in cluster A**

Relative: SWEEPS UST:
Higher

Actual:
1037 ft.

Status:	Not reported
Comp Number:	12830
Number:	Not reported
Board Of Equalization:	44-009939
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012830-000001
Tank Status:	Not reported
Capacity:	1000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	4

Status:	Not reported
Comp Number:	12830
Number:	Not reported
Board Of Equalization:	44-009939
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012830-000002
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	12830
Number:	Not reported
Board Of Equalization:	44-009939
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012830-000003

DIXXIE DIESEL / C/O NATE OLSON (Continued) **S106925423**

Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	12830
Number:	Not reported
Board Of Equalization:	44-009939
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-000-012830-000004
Tank Status:	Not reported
Capacity:	10000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	DIESEL
Number Of Tanks:	Not reported

A3 **DIXIE DIESEL STATION** **LUST S102428845**
NNW **29471 THE OLD** **HIST CORTESE N/A**
< 1/8 **SAUGUS, CA 91350**
0.072 mi.
378 ft. **Site 3 of 4 in cluster A**

Relative: **Higher**
Actual: **1037 ft.**

LUST:

Lead Agency:	LOS ANGELES COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603704004
Global Id:	T0603704004
Latitude:	34.4680232
Longitude:	-118.4689948
Status:	Completed - Case Closed
Status Date:	11/30/1993
Case Worker:	JOA
RB Case Number:	I-12830
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0603704004
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY
Address:	900 S FREMONT AVE
City:	ALHAMBRA
Email:	jawujo@dpw.lacounty.gov
Phone Number:	6264583507

DIXIE DIESEL STATION (Continued) **S102428845**

Global Id:	T0603704004
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

LUST:

Global Id:	T0603704004
Action Type:	Other
Date:	04/06/1987
Action:	Leak Reported

LUST:

Global Id:	T0603704004
Status:	Completed - Case Closed
Status Date:	11/30/1993

Global Id:	T0603704004
Status:	Open - Case Begin Date
Status Date:	02/03/1987

Global Id:	T0603704004
Status:	Open - Site Assessment
Status Date:	02/03/1987

LUST REG 4:

Region:	4
Regional Board:	04
County:	Los Angeles
Facility Id:	I-12830
Status:	Case Closed
Substance:	Diesel
Substance Quantity:	Not reported
Local Case No:	Not reported
Case Type:	Groundwater
Abatement Method Used at the Site:	Excavate and Dispose
Global ID:	T0603704004
W Global ID:	W0607300028
Staff:	UNK
Local Agency:	19000
Cross Street:	Not reported
Enforcement Type:	Informal Enforcement Actions,including Notices of Violations and Staff Enforcement Letters
Date Leak Discovered:	Not reported
Date Leak First Reported:	4/6/1987
Date Leak Record Entered:	Not reported
Date Confirmation Began:	Not reported
Date Leak Stopped:	Not reported
Date Case Last Changed on Database:	11/30/1993
Date the Case was Closed:	11/30/1993
How Leak Discovered:	Subsurface Monitoring
How Leak Stopped:	Not reported
Cause of Leak:	UNK

DIXIE DIESEL STATION (Continued) **S102428845**

Leak Source:	UNK
Operator:	Not reported
Water System:	CUYAPAIPE/MT. LAGUNA SYSTEM
Well Name:	Not reported
Approx. Dist To Production Well (ft):	1452.033932136087145347 1030342
Source of Cleanup Funding:	UNK
Preliminary Site Assessment Workplan Submitted:	Not reported
Preliminary Site Assessment Began:	2/3/1987
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	6/20/1930
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	1/1/1965
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	GORTIKOV/HASLEY PARTNERS, LTD
RP Address:	15165 VENTURA BLVD, #230, SHERMAN OAKS, 91403
Program:	LUST
Lat/Long:	34.4680232 / -1
Local Agency Staff:	Not reported
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	3700028-001GEN
Summary:	2215 MG/KG TPH IN SOIL AT 10'. 5 MG/L TPH IN WATER REPORTED 1/29/91 2ND LEAK
	OLD CASE #021089-08

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	I-12830

A4 **HASLEY CLEANERS** **EDR Hist Cleaner** **1019950731**
NNW **27305 LIVE OAK RD** **N/A**
< 1/8 **CASTAIC, CA 91384**
0.115 mi.
608 ft. **Site 4 of 4 in cluster A**

Relative: EDR Hist Cleaner
Higher

Actual: **1040 ft.**

Year:	Name:	Type:
1996	HASLEY CLEANERS	Drycleaning Plants, Except Rugs, NEC
1997	HASLEY CLEANERS	Drycleaning Plants, Except Rugs, NEC
1998	HASLEY CLEANERS	Drycleaning Plants, Except Rugs, NEC
2002	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs
2003	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs
2004	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs
2005	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs

HASLEY CLEANERS (Continued) **1019950731**

2006	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs
2007	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs
2008	CASTAIC CLEANERS	Drycleaning Plants, Except Rugs

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5 **SUNVAIR, INC.** **RCRA-LQG** **1019322777**
SSE **29145 THE OLD ROAD** **CAR000264721**
1/8-1/4 **LOS ANGELES, CA 93155**
0.242 mi.
1278 ft.

Relative: **Lower**

Actual: **1021 ft.**

RCRA-LQG:

Date form received by agency:	02/04/2019
Facility name:	SUNVAIR, INC.
Facility address:	29145 THE OLD ROAD LOS ANGELES, CA 93155
EPA ID:	CAR000264721
Mailing address:	THE OLD ROAD LOS ANGELES, CA 93155
Contact:	DALE K ROBERTS
Contact address:	THE OLD ROAD LOS ANGELES, CA 93155
Contact country:	US
Contact telephone:	661-964-3809
Contact email:	DROBERTS@SUNVAIR.COM
EPA Region:	09
Land type:	Private
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	SUNVAIR, INC.
Owner/operator address:	Not reported Not reported
Owner/operator country:	US
Owner/operator telephone:	Not reported
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	06/01/2016
Owner/Op end date:	Not reported
Owner/operator name:	ICP VALENCIA IC LP
Owner/operator address:	THE OLD ROAD LOS ANGELES, CA 93155

SUNVAIR, INC. (Continued) **1019322777**

Owner/operator country: US
Owner/operator telephone: 213-629-6536
Owner/operator email: JAMES.WLEE@CUSHWAKE.COM
Owner/operator fax: 714-321-1824
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 07/26/2016
Owner/Op end date: Not reported

Owner/operator name: IPT VALENCIA IC LP
Owner/operator address: SEVENTEENTH ST STE 1700
DENVER, CO 80202
Owner/operator country: US
Owner/operator telephone: 714-767-5355
Owner/operator email: Not reported
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 12/22/2015
Owner/Op end date: Not reported

Owner/operator name: SUNVAIR, INC.
Owner/operator address: THE OLD ROAD
LOS ANGELES, CA 93155
Owner/operator country: US
Owner/operator telephone: 661-964-3829
Owner/operator email: JRIVERA@SUNVAIR.COM
Owner/operator fax: Not reported
Owner/operator extension: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 07/26/2016
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: 121
. Waste name: Alkaline solution (pH >12.5) with metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)

SUNVAIR, INC. (Continued) **1019322777**

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 135
. Waste name: Unspecified aqueous solution

. Waste code: 171
. Waste name: Metal sludge (see 121)

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 331
. Waste name: Off-specification, aged, or surplus organics

. Waste code: 352
. Waste name: Other organic solids

. Waste code: 513
. Waste name: Empty containers less than 30 gallons

. Waste code: 723
. Waste name: Liquids with chromium (VI) > 500 mg/l

. Waste code: 792
. Waste name: Liquids with pH < 2 with metals

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D011
. Waste name: SILVER

SUNVAIR, INC. (Continued) **1019322777**

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F006
. Waste name: WASTEWATER TREATMENT SLUDGES FROM ELECTROPLATING OPERATIONS, EXCEPT FROM THE FOLLOWING PROCESSES: (1) SULFURIC ACID ANODIZING OF ALUMINUM; (2) TIN PLATING ON CARBON STEEL; (3) ZINC PLATING (SEGREGATED BASIS) ON CARBON STEEL; (4) ALUMINUM OR ZINC-ALUMINUM PLATING ON CARBON STEEL; (5) CLEANING/STRIPPING ASSOCIATED WITH TIN, ZINC, AND ALUMINUM PLATING ON CARBON STEEL; AND (6) CHEMICAL ETCHING AND MILLING OF ALUMINUM.

. Waste code: F008
. Waste name: PLATING BATH RESIDUES FROM THE BOTTOM OF PLATING BATHS FROM ELECTROPLATING OPERATIONS IN WHICH CYANIDES ARE USED IN THE PROCESS.

Historical Generators:
Date form received by agency: 08/14/2016
Site name: SUNVAIR, INC
Classification: Large Quantity Generator

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

SUNVAIR, INC. (Continued) **1019322777**

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND

SUNVAIR, INC. (Continued) **1019322777**

SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Date form received by agency: 06/27/2016
Site name: SUNVAIR, INC
Classification: Large Quantity Generator

. Waste code: 123
. Waste name: Unspecified alkaline solution

. Waste code: 134
. Waste name: Aqueous solution with <10% total organic residues

. Waste code: 181
. Waste name: Other inorganic solid waste

. Waste code: 212
. Waste name: Oxygenated solvents (acetone, butanol, ethyl acetate, etc.)

. Waste code: 213
. Waste name: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.)

. Waste code: 222
. Waste name: Oil/water separation sludge

. Waste code: 343
. Waste name: Unspecified organic liquid mixture

. Waste code: 791
. Waste name: Liquids with pH < 2

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D002
. Waste name: CORROSIVE WASTE

SUNVAIR, INC. (Continued) **1019322777**

. Waste code: D005
. Waste name: BARIUM

. Waste code: D006
. Waste name: CADMIUM

. Waste code: D007
. Waste name: CHROMIUM

. Waste code: D008
. Waste name: LEAD

. Waste code: D018
. Waste name: BENZENE

. Waste code: D035
. Waste name: METHYL ETHYL KETONE

. Waste code: D039
. Waste name: TETRACHLOROETHYLENE

. Waste code: D040
. Waste name: TRICHLORETHYLENE

. Waste code: F002
. Waste name: THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2, TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F003
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

. Waste code: F005
. Waste name: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Violation Status: No violations found

SUNVAIR, INC. (Continued) **1019322777**

Evaluation Action Summary:
Evaluation date: 03/28/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/15/2017
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 11/18/2016
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

6
NNW
1/4-1/2
0.375 mi.
1978 ft.

FORMER SHELL STATION **LUST** **S107138409**
29600 THE OLD ROAD **N/A**
CASTAIC, CA 91384

Relative:
Higher

Actual:
1051 ft.

LUST:
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603768125
Global Id: T0603768125
Latitude: 34.479742
Longitude: -118.625773
Status: Completed - Case Closed
Status Date: 07/20/2007
Case Worker: Not reported
RB Case Number: R-44839
Local Agency: LOS ANGELES COUNTY
File Location: Regional Board
Local Case Number: 002852-044839
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Other Solvent or Non-Petroleum Hydrocarbon, Benzene
Site History: Not reported

LUST:
Global Id: T0603768125
Contact Type: Local Agency Caseworker
Contact Name: TIM SMITH
Organization Name: LOS ANGELES COUNTY
Address: 900 S. FREMONT AVE.
City: ALHAMBRA
Email: tsmith@dpw.lacounty.gov
Phone Number: Not reported

LUST:
Global Id: T0603768125
Action Type: RESPONSE
Date: 01/31/2006
Action: Other Report / Document

FORMER SHELL STATION (Continued) **S107138409**

Global Id: T0603768125
Action Type: RESPONSE
Date: 08/16/2005
Action: Other Report / Document

Global Id: T0603768125
Action Type: RESPONSE
Date: 10/15/2005
Action: Other Report / Document

Global Id: T0603768125
Action Type: RESPONSE
Date: 12/15/2005
Action: Soil and Water Investigation Workplan

Global Id: T0603768125
Action Type: Other
Date: 06/21/2005
Action: Leak Reported

Global Id: T0603768125
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603768125
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603768125
Action Type: RESPONSE
Date: 04/15/2007
Action: Request for Closure

Global Id: T0603768125
Action Type: ENFORCEMENT
Date: 01/10/2006
Action: Staff Letter

Global Id: T0603768125
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603768125
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603768125
Action Type: REMEDIATION
Date: 06/21/2005
Action: Not reported

Global Id: T0603768125
Action Type: ENFORCEMENT

FORMER SHELL STATION (Continued) **S107138409**

Date: 09/01/2005
Action: Staff Letter

Global Id: T0603768125
Action Type: ENFORCEMENT
Date: 02/16/2006
Action: Staff Letter

Global Id: T0603768125
Action Type: ENFORCEMENT
Date: 07/20/2007
Action: Closure/No Further Action Letter

Global Id: T0603768125
Action Type: ENFORCEMENT
Date: 07/09/2007
Action: Site Visit / Inspection / Sampling

Global Id: T0603768125
Action Type: Other
Date: 06/21/2005
Action: Leak Discovery

Global Id: T0603768125
Action Type: RESPONSE
Date: 04/15/2006
Action: Soil and Water Investigation Report

Global Id: T0603768125
Action Type: ENFORCEMENT
Date: 11/04/2005
Action: Staff Letter

LUST:
Global Id: T0603768125
Status: Completed - Case Closed
Status Date: 07/20/2007

Global Id: T0603768125
Status: Open - Case Begin Date
Status Date: 06/21/2005

Global Id: T0603768125
Status: Open - Site Assessment
Status Date: 06/21/2005

Global Id: T0603768125
Status: Open - Site Assessment
Status Date: 02/16/2006

B7 **LA CO SHERIFF PJP HONOR** **LUST** **S104773284**
SE **29300 THE OLD RD N** **N/A**
1/4-1/2 **CASTAIC, CA 91384**
0.459 mi.
2425 ft. **Site 1 of 3 in cluster B**

Relative: LUST REG 4:
Lower

Actual:
1018 ft.

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	R-00351	
Status:	Leak being confirmed	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Soil	
Abatement Method Used at the Site:		OT
Global ID:	T0603793066	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19000	
Cross Street:	BISCAILUZ DR	
Enforcement Type:	Not reported	
Date Leak Discovered:	12/8/1998	
Date Leak First Reported:		6/15/2000
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	12/8/1998	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		6/15/2000
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	Spill	
Leak Source:	Tank	
Operator:	LA CO SHERIFFS	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		1715.54264321068784504175731 4
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	LA CO SHERIFF	
RP Address:	4700 RAMONA BLVD., MONTEREY PARK, CA 91754	
Program:	LUST	
Lat/Long:	34.4863 / -1	
Local Agency Staff:	Not reported	

LA CO SHERIFF PJP HONOR (Continued) **S104773284**

Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

B8 **LA CO. INTERNAL SERVICES DEPT** **SWF/LF** **S100279945**
SE **29300 THE OLD RD** **CHMIRS** **N/A**
1/4-1/2 **SAUGUS, CA 91350** **EMI**
0.459 mi. **Financial Assurance**
2425 ft. **Site 2 of 3 in cluster B**

Relative: **Lower**
Actual: **1018 ft.**

SWF/LF (SWIS):

Facility ID:	19-AA-0057
Lat/Long:	34.46142 / -118.59011
Owner Name:	County Of Los Angeles Sheriff's Dept
Owner Telephone:	2139744528
Owner Address:	Not reported
Owner Address2:	29300 The Old Road
Owner City,St,Zip:	Saugus, CA 90012
Operational Status:	Inactive
Operator:	County Of Los Angeles Sheriff's Dept
Operator Phone:	2139744528
Operator Address:	Not reported
Operator Address2:	29300 The Old Road
Operator City,St,Zip:	Saugus, CA 90012
Permit Date:	06/16/1997
Permit Status:	Permitted
Permitted Acreage:	$54.00
Activity:	Solid Waste Landfill
Regulation Status:	Permitted
Landuse Name:	Not reported
GIS Source:	Map
Category:	Disposal
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Agricultural,Construction/demolition,Mixed municipal,Other hazardous,Tires
Closure Date:	10/31/1993
Closure Type:	Actual
Disposal Acreage:	$15.00
SWIS Num:	19-AA-0057
Waste Discharge Requirement Num:	II
Program Type:	BOE Reporting Disposal Facility,Financial Assurance Responsibilities
Permitted Throughput with Units:	154
Actual Throughput with Units:	Cu Yards/day
Permitted Capacity with Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Not reported
Lat/Long:	34.46142 / -118.59011

CHMIRS:

OES Incident Number:	014303
OES notification:	Not reported
OES Date:	Not reported
OES Time:	Not reported

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Date Completed:	**05-DEC-90**
Property Use:	600
Agency Id Number:	19110
Agency Incident Number:	51
Time Notified:	1835
Time Completed:	1935
Surrounding Area:	099
Estimated Temperature:	60
Property Management:	C
More Than Two Substances Involved?:	N
Resp Agncy Personel # Of Decontaminated:	0
Responding Agency Personel # Of Injuries:	0
Responding Agency Personel # Of Fatalities:	0
Others Number Of Decontaminated:	0
Others Number Of Injuries:	0
Others Number Of Fatalities:	0
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	CAPT. LYNN MOHR #124351
Report Date:	05-DEC-90
Facility Telephone:	213 267-2401
Waterway Involved:	Not reported
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Not reported
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	88-92
Agency:	Not reported
Incident Date:	05-DEC-90
Admin Agency:	Not reported
Amount:	Not reported
Contained:	Not reported
Site Type:	Not reported
E Date:	20-JUN-91
Substance:	Not reported
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Injuries:	Not reported
Fatals:	Not reported
Comments:	Y
Description:	Not reported

EMI:

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	88605
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	4953
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	80
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	23
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	1996
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9999
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	5
Reactive Organic Gases Tons/Yr:	2
Carbon Monoxide Emissions Tons/Yr:	2
NOX - Oxides of Nitrogen Tons/Yr:	8
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	65
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	28
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	80
Reactive Organic Gases Tons/Yr:	7
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	28
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9223

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	65
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	5
NOX - Oxides of Nitrogen Tons/Yr:	28
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	65
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	5

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

NOX - Oxides of Nitrogen Tons/Yr:	28
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	68
Reactive Organic Gases Tons/Yr:	6
Carbon Monoxide Emissions Tons/Yr:	11
NOX - Oxides of Nitrogen Tons/Yr:	34
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	14
Part. Matter 10 Micrometers and Smllr Tons/Yr:	14

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	6488
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	1
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	4953
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	59
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	8
NOX - Oxides of Nitrogen Tons/Yr:	27
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	4953
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	59
Reactive Organic Gases Tons/Yr:	5
Carbon Monoxide Emissions Tons/Yr:	8
NOX - Oxides of Nitrogen Tons/Yr:	27
SOX - Oxides of Sulphur Tons/Yr:	1
Particulate Matter Tons/Yr:	13
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	1
NOX - Oxides of Nitrogen Tons/Yr:	4
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Y
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0.54687
Reactive Organic Gases Tons/Yr:	0.33
Carbon Monoxide Emissions Tons/Yr:	1.112
NOX - Oxides of Nitrogen Tons/Yr:	3.82
SOX - Oxides of Sulphur Tons/Yr:	0.0347
Particulate Matter Tons/Yr:	0.241812
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0.24

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	58949
Air District Name:	SC
SIC Code:	4953
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	59.10427
Reactive Organic Gases Tons/Yr:	5.4
Carbon Monoxide Emissions Tons/Yr:	8.4802
NOX - Oxides of Nitrogen Tons/Yr:	27.3469
SOX - Oxides of Sulphur Tons/Yr:	0.53871
Particulate Matter Tons/Yr:	12.60335
Part. Matter 10 Micrometers and Smllr Tons/Yr:	12.52

Year:	2008
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	61.57725726651959374
Reactive Organic Gases Tons/Yr:	5.85471529129
Carbon Monoxide Emissions Tons/Yr:	10.92
NOX - Oxides of Nitrogen Tons/Yr:	32.91

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

SOX - Oxides of Sulphur Tons/Yr:	.577026
Particulate Matter Tons/Yr:	13.34
Part. Matter 10 Micrometers and Smllr Tons/Yr:	13.26176
Year:	2009
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	22.639134586682299
Reactive Organic Gases Tons/Yr:	2.7604169999999999
Carbon Monoxide Emissions Tons/Yr:	10.529999999999999
NOX - Oxides of Nitrogen Tons/Yr:	32.619999999999997
SOX - Oxides of Sulphur Tons/Yr:	0.57882
Particulate Matter Tons/Yr:	6.6299999999999999
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.5593199999999996
Year:	2010
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	21.873924285195699
Reactive Organic Gases Tons/Yr:	2.5966100000000001
Carbon Monoxide Emissions Tons/Yr:	16.206109999999999
NOX - Oxides of Nitrogen Tons/Yr:	33.638800000000003
SOX - Oxides of Sulphur Tons/Yr:	0.57096999999999998
Particulate Matter Tons/Yr:	6.3459700000000003
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.2964292000000004
Year:	2011
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	185.89212733
Reactive Organic Gases Tons/Yr:	17.48454
Carbon Monoxide Emissions Tons/Yr:	16.84373
NOX - Oxides of Nitrogen Tons/Yr:	30.93466
SOX - Oxides of Sulphur Tons/Yr:	0.56618
Particulate Matter Tons/Yr:	6.77294
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.58382988
Year:	2012
County Code:	19

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9221
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	210.68508599
Reactive Organic Gases Tons/Yr:	20.02678
Carbon Monoxide Emissions Tons/Yr:	8.97014
NOX - Oxides of Nitrogen Tons/Yr:	28.68197
SOX - Oxides of Sulphur Tons/Yr:	0.56
Particulate Matter Tons/Yr:	6.8881
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.7311739

Year:	2013
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	206.09334615
Reactive Organic Gases Tons/Yr:	19.38254
Carbon Monoxide Emissions Tons/Yr:	11.22083
NOX - Oxides of Nitrogen Tons/Yr:	31.72794
SOX - Oxides of Sulphur Tons/Yr:	0.55506
Particulate Matter Tons/Yr:	6.99769
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.83757038

Year:	2014
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	39.660768858
Reactive Organic Gases Tons/Yr:	5.29771
Carbon Monoxide Emissions Tons/Yr:	23.68846
NOX - Oxides of Nitrogen Tons/Yr:	33.27008
SOX - Oxides of Sulphur Tons/Yr:	0.53735
Particulate Matter Tons/Yr:	7.03566
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.78312882

Year:	2015
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	42.387861189
Reactive Organic Gases Tons/Yr:	5.5658085
Carbon Monoxide Emissions Tons/Yr:	24.261168
NOX - Oxides of Nitrogen Tons/Yr:	35.17911912
SOX - Oxides of Sulphur Tons/Yr:	0.56913493
Particulate Matter Tons/Yr:	8.46694035
Part. Matter 10 Micrometers and Smllr Tons/Yr:	8.212298976

Year:	2016
County Code:	19
Air Basin:	SC
Facility ID:	800386
Air District Name:	SC
SIC Code:	9223
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	37.303025812
Reactive Organic Gases Tons/Yr:	3.8996667
Carbon Monoxide Emissions Tons/Yr:	22.864311
NOX - Oxides of Nitrogen Tons/Yr:	32.44926
SOX - Oxides of Sulphur Tons/Yr:	0.514424745
Particulate Matter Tons/Yr:	6.8269028
Part. Matter 10 Micrometers and Smllr Tons/Yr:	6.577055904

CA Financial Assurance 2:

Region:	2
SWIS_NO:	19-AA-0057
Closure Approved:	Yes
Closure Inf Coverage Date:	10/01/2016
Closure Plan Coverage:	$2,193,958.00
Closure Plan Date:	06/18/2013
PostClose Approved:	Yes
PostClose Adequacy Date:	06/18/2013
PostClose Inf Coverage:	$1,867,268.00
PostClose Inf Coverage Date:	10/01/2016
CorActCoverage:	$1,000,000.00
CorActApproved:	No
CorAct Mec Adequacy Date:	Not reported
CorAct Inf Coverage:	$487,367.00
CorActPlanCoverage:	$475,410.00
CorAct Plan Date:	08/01/2014
Lia Coverage:	$0.00
Lia Approved:	No
Review:	10/13/2016
Closure Mechanism A:	TRUST FUND
Closure Mechanism B:	Not reported
Closure Coverage:	$4,113,756.00
Closure Adequacy:	Not reported
Closure Inflation Estimate:	$2,282,873.00
Post Closure Mechanism A:	TRUST FUND
Post Closure Established A:	01/09/2004
Post Closure Mechanism B:	Not reported
Post Closure Coverate:	$4,113,756.00
Post Closure Adequacy:	Not reported
Corrective Action Extablished A:	Not reported

LA CO. INTERNAL SERVICES DEPT (Continued) **S100279945**

Corrective Actiont Coverage:	$1,000,000.00
Corrective Action Approved:	No
Corrective Action Inflation Estimate:	$487,367.00
Corrective Action Inflationdate:	10/01/2016
Corrective Action Plan Estimate:	$475,410.00
Liability Mechanism A:	Not reported
Liability Established A:	Not reported
Liability Mechanism B:	Not reported
CostAnniversary:	01/09/2014
ClosureEstablishedA:	01/09/2004
ClosureEstablishedB:	Not reported
ClosureDisbursement:	0
PostClosureEstablishedB:	Not reported
PostClosureDisbursement:	0
CorrectiveActionMechanismA:	SELF-INS. & RISK MANAGEMENT
CorrectiveActionMechanismB:	Not reported
CorrectiveActionExtablishedB:	Not reported
CorrectiveActiontDisbursement:	0
LiabilityEstablishedB:	Not reported
LiabilityAdequacy:	Not reported
Responsible Party:	Not reported
Provider:	County of Los Angeles
Contact:	County of Los Angeles Sheriffs Departmen

B9 **LA CO SHERIFF PJP HONOR** **LUST U001562358**
SE **29300 THE OLD RD** **HIST UST N/A**
1/4-1/2 **CASTAIC, CA 91384**
0.459 mi.
2425 ft. **Site 3 of 3 in cluster B**

Relative: LUST:
Lower

Actual: Lead Agency:	SWRCB
1018 ft. Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0603793066
Global Id:	T0603793066
Latitude:	34.4654978063406
Longitude:	-118.602710774994
Status:	Completed - Case Closed
Status Date:	07/31/2017
Case Worker:	MC
RB Case Number:	R-00351
Local Agency:	LOS ANGELES COUNTY
File Location:	Not reported
Local Case Number:	TT008963-000351
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	There is a State Water Board closure Order for this case issued 12/15/2014. The State Water Board needs confirmation that the corrective action wells and wastes have been removed from the site in order to close the case. Once confirmation has been received State Water Board can issue a Uniform Closure Letter and close the case. Attempts to reach the RP have failed. gwl 4/14/2016.

LUST:

Global Id:	T0603793066
Contact Type:	Local Agency Caseworker
Contact Name:	JOHN AWUJO
Organization Name:	LOS ANGELES COUNTY

LA CO SHERIFF PJP HONOR (Continued) **U001562358**

Address: 900 S FREMONT AVE
City: ALHAMBRA
Email: jawujo@dpw.lacounty.gov
Phone Number: 6264583507

Global Id: T0603793066
Contact Type: Regional Board Caseworker
Contact Name: MATTHEW COHEN
Organization Name: SWRCB
Address: 1001 I Street
City: SACRAMENTO
Email: mcohen@waterboards.ca.gov
Phone Number: 9163415751

Global Id: T0603793066
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0603793066
Action Type: Other
Date: 06/15/2000
Action: Leak Reported

Global Id: T0603793066
Action Type: ENFORCEMENT
Date: 07/31/2017
Action: Closure/No Further Action Letter

Global Id: T0603793066
Action Type: RESPONSE
Date: 01/18/1994
Action: Tank Removal Report / UST Sampling Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 06/30/2009
Action: Tank Removal Report / UST Sampling Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 07/26/2006
Action: Tank Removal Report / UST Sampling Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 08/28/2009
Action: Soil and Water Investigation Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 08/11/1987

LA CO SHERIFF PJP HONOR (Continued) **U001562358**

Action: Tank Removal Report / UST Sampling Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 06/01/2002
Action: Preliminary Site Assessment Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 01/05/1999
Action: Tank Removal Report / UST Sampling Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 09/27/2007
Action: Site Assessment Report

Global Id: T0603793066
Action Type: RESPONSE
Date: 09/27/2007
Action: Site Assessment Report

Global Id: T0603793066
Action Type: ENFORCEMENT
Date: 06/07/2000
Action: Staff Letter

Global Id: T0603793066
Action Type: ENFORCEMENT
Date: 11/02/1987
Action: Staff Letter

Global Id: T0603793066
Action Type: ENFORCEMENT
Date: 12/15/2014
Action: State Water Board Closure Order

Global Id: T0603793066
Action Type: Other
Date: 12/08/1998
Action: Leak Discovery

LUST:
Global Id: T0603793066
Status: Completed - Case Closed
Status Date: 07/31/2017

Global Id: T0603793066
Status: Open - Case Begin Date
Status Date: 12/08/1998

Global Id: T0603793066
Status: Open - Eligible for Closure
Status Date: 12/10/2013

Global Id: T0603793066
Status: Open - Eligible for Closure

LA CO SHERIFF PJP HONOR (Continued) **U001562358**

Status Date: 12/26/2014

Global Id: T0603793066
Status: Open - Site Assessment
Status Date: 12/08/1998

HIST UST:
File Number: 000277F5
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000277F5.pdf
Region: STATE
Facility ID: 00000020834
Facility Type: Other
Other Type: RANCH
Contact Name: LOS ANGELES COUNTY MECHANICAL
Telephone: 2672242
Owner Name: LOS ANGELES COUNTY MECHANICAL
Owner Address: 1100 N. EASTERN AVE.
Owner City,St,Zip: LOS ANGELES, CA 90063
Total Tanks: 0010

Tank Num: 001
Container Num: #01
Year Installed: Not reported
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: #02
Year Installed: Not reported
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: #0O
Year Installed: Not reported
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: #04
Year Installed: Not reported
Tank Capacity: 00003000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

LA CO SHERIFF PJP HONOR (Continued) **U001562358**

Tank Num:	005
Container Num:	#05
Year Installed:	Not reported
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	006
Container Num:	#6
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	007
Container Num:	#7
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	008
Container Num:	#8
Year Installed:	Not reported
Tank Capacity:	00002000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	009
Container Num:	9
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	010
Container Num:	#10
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

10 West 1/2-1 0.672 mi. 3550 ft.

Relative: Higher

Actual: 1112 ft.

ITT AEROSPACE CONTROLS
28150 INDUSTRY DR
VALENCIA, CA 91355

Database(s): RCRA-SQG, ENVIROSTOR, AST, FINDS, ECHO, EMI, HAZNET, LOS ANGELES CO. HMS, NPDES, LA Co. Site Mitigation, CIWQS

EDR ID Number: 1000904860
EPA ID Number: CA0000138537

RCRA-SQG:

Date form received by agency:	04/15/1999
Facility name:	ITT AEROSPACE CONTROLS
Facility address:	28150 INDUSTRY DR VALENCIA, CA 91355
EPA ID:	CA0000138537
Contact:	JON HILLNER
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	805-295-4148
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NEWHALL LAND AND FARM
Owner/operator address:	23823 VALENCIA BLVD VALENCIA, CA 91355
Owner/operator country:	Not reported
Owner/operator telephone:	805-255-4000
Owner/operator email:	Not reported
Owner/operator fax:	Not reported
Owner/operator extension:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 09/01/1996
Site name: ITT AEROSPACE CONTROLS
Classification: Small Quantity Generator

Date form received by agency: 07/17/1996
Site name: ITT AEROSPACE CONTROLS
Classification: Large Quantity Generator

Date form received by agency: 05/16/1994
Site name: ITT AEROSPACE CONTROLS
Classification: Large Quantity Generator

Date form received by agency: 05/16/1994
Site name: ITT AEROSPACE CONTROLS
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 71003567
Status: Refer: Other Agency
Status Date: Not reported
Site Code: Not reported
Site Type: Tiered Permit
Site Type Detailed: Tiered Permit
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Cleanup Chatsworth
Assembly: 38
Senate: 21
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 34.44958
Longitude: -118.6268
APN: NONE SPECIFIED
Past Use: NONE SPECIFIED
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: CA0000138537
Alias Type: EPA Identification Number
Alias Name: 110000886257
Alias Type: EPA (FRS #)
Alias Name: 71003567
Alias Type: Envirostor ID Number

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Completed Info:

Completed Area Name:	Not reported
Completed Sub Area Name:	Not reported
Completed Document Type:	Not reported
Completed Date:	Not reported
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

AST:

Certified Unified Program Agencies:	Not reported
Owner:	ITT AEROSPACE CONTROLS
Total Gallons:	Not reported
CERSID:	10266580
Facility ID:	LACoFA0014510
Business Name:	ITT AEROSPACE CONTROLS
Phone:	(661) 295-4000
Fax:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing Address City:	VALENCIA
Mailing Address State:	CA
Mailing Address Zip Code:	91355
Operator Name:	Steve Gedalje
Operator Phone:	661-295-4148
Owner Phone:	(661) 295-4000
Owner Mail Address:	28150 INDUSTRY DR
Owner State:	CA
Owner Zip Code:	91355
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CA0000138837

FINDS:

Registry ID: 110041064111

Environmental Interest/Information System
AIR EMISSIONS CLASSIFICATION UNKNOWN

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are

ITT AEROSPACE CONTROLS (Continued) **1000904860**

transported off-site.

California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Registry ID: 110070308974

Environmental Interest/Information System
OSHA ESTABLISHMENT

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000904860
Registry ID:	110041064111
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110041064111

EMI:

Year:	1997
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Year:	1998
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	11
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1999
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2000
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3471
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	12
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2001
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3471

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	B
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	10
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2002
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3499
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2003
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3499
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	3
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2004
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3499
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	2.79504751
Reactive Organic Gases Tons/Yr:	2.71
Carbon Monoxide Emissions Tons/Yr:	0

ITT AEROSPACE CONTROLS (Continued) **1000904860**

NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0.0000114
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	2005
County Code:	19
Air Basin:	SC
Facility ID:	103617
Air District Name:	SC
SIC Code:	3499
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1.75423
Reactive Organic Gases Tons/Yr:	1.711111231
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HAZNET:

Facility Name:	ITT AEROSPACE CONTROLS
envid:	1000904860
Year:	2017
GEPAID:	CA0000138537
Contact:	RYAN RIETZEL
Telephone:	6612954146
Mailing Name:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing City,St,Zip:	VALENCIA, CA 913554100
Gen County:	Los Angeles
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.494
Cat Decode:	Other organic solids
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles

envid:	1000904860
Year:	2017
GEPAID:	CA0000138537
Contact:	RYAN RIETZEL
Telephone:	6612954146
Mailing Name:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing City,St,Zip:	VALENCIA, CA 913554100
Gen County:	Los Angeles
TSD EPA ID:	CAT080013352
TSD County:	Los Angeles
Waste Category:	Waste oil and mixed oil
Disposal Method:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	52.592

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Cat Decode:	Waste oil and mixed oil
Method Decode:	Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Facility County:	Los Angeles
envid:	1000904860
Year:	2017
GEPAID:	CA0000138537
Contact:	RYAN RIETZEL
Telephone:	6612954146
Mailing Name:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing City,St,Zip:	VALENCIA, CA 913554100
Gen County:	Los Angeles
TSD EPA ID:	NVT330010000
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	7.6695
Cat Decode:	Other organic solids
Method Decode:	Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Facility County:	Los Angeles
envid:	1000904860
Year:	2017
GEPAID:	CA0000138537
Contact:	RYAN RIETZEL
Telephone:	6612954146
Mailing Name:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing City,St,Zip:	VALENCIA, CA 913554100
Gen County:	Los Angeles
TSD EPA ID:	TND000772186
TSD County:	99
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	0.549
Cat Decode:	Unspecified organic liquid mixture
Method Decode:	Fuel Blending Prior To Energy Recovery At Another Site
Facility County:	Los Angeles
envid:	1000904860
Year:	2016
GEPAID:	CA0000138537
Contact:	RYAN RIETZEL
Telephone:	6612954146
Mailing Name:	Not reported
Mailing Address:	28150 INDUSTRY DR
Mailing City,St,Zip:	VALENCIA, CA 913554100
Gen County:	Los Angeles
TSD EPA ID:	ARD981057870
TSD County:	99
Waste Category:	Other organic solids
Disposal Method:	Fuel Blending Prior To Energy Recovery At Another Site
Tons:	2.6535

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
219 additional CA_HAZNET: record(s) in the EDR Site Report.

LOS ANGELES CO. HMS:
Region: LA
Permit Category: I
Facility Id: 016445-021745
Facility Type: 09
Facility Status: Permit
Area: 7
Permit Number: 000098170
Permit Status: Permit

Region: LA
Permit Category: I
Facility Id: 016445-021745
Facility Type: 01
Facility Status: Permit
Area: 7
Permit Number: 000098171
Permit Status: Closed

Region: LA
Permit Category: I
Facility Id: 016445-021745
Facility Type: S4
Facility Status: Permit
Area: 7
Permit Number: 000467725
Permit Status: Permit

Region: LA
Permit Category: S
Facility Id: 016445-043908
Facility Type: S6
Facility Status: Permit
Area: 7
Permit Number: CGI014586
Permit Status: Permit

NPDES:
Facility Status: Not reported
NPDES Number: Not reported
Region: Not reported
Agency Number: Not reported
Regulatory Measure ID: Not reported
Place ID: Not reported
Order Number: Not reported
WDID: 4 19I014586
Regulatory Measure Type: Industrial
Program Type: Not reported
Adoption Date Of Regulatory Measure: Not reported

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	09/16/1998
Operator Name:	ITT Aerospace Controls
Operator Address:	28150 Industry Dr
Operator City:	Valencia
Operator State:	California
Operator Zip:	91355

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	190722
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I014586
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/16/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	ITT Aerospace Controls
Discharge Address:	28150 Industry Dr
Discharge City:	Valencia
Discharge State:	California
Discharge Zip:	91355
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	190722
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I014586
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	09/16/1998
Status:	Active

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Status Date:	09/16/1998
Place Size:	250000
Place Size Unit:	SqFt
Contact:	Ryan Rietzel
Contact Title:	ESH Manager
Contact Phone:	661-295-4146
Contact Phone Ext:	Not reported
Contact Email:	ryan.rietzel@itt.com
Operator Name:	ITT Aerospace Controls
Operator Address:	28150 Industry Dr
Operator City:	Valencia
Operator State:	California
Operator Zip:	91355
Operator Contact:	Ryan Rietzel
Operator Contact Title:	ESH Manager
Operator Contact Phone:	661-295-4146
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	ryan.rietzel@itt.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	661-295-4000
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Clara River
Certifier:	Steve Gedalje
Certifier Title:	Director
Certification Date:	10-JUN-15
Primary Sic:	3728-Aircraft Parts and Auxiliary Equipment, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Facility Status:	Active
NPDES Number:	CAS000001

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Region:	4
Agency Number:	0
Regulatory Measure ID:	190722
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	4 19I014586
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/16/1998
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	28150 Industry Dr
Discharge Name:	ITT Aerospace Controls
Discharge City:	Valencia
Discharge State:	California
Discharge Zip:	91355
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	4
Regulatory Measure ID:	190722
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	4 19I014586
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	09/16/1998
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	ITT Aerospace Controls
Discharge Address:	28150 Industry Dr
Discharge City:	Valencia
Discharge State:	California
Discharge Zip:	91355
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	4
Regulatory Measure ID:	190722
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	4 19I014586
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	09/16/1998
Status:	Active
Status Date:	09/16/1998
Place Size:	250000
Place Size Unit:	SqFt
Contact:	Ryan Rietzel
Contact Title:	ESH Manager
Contact Phone:	661-295-4146
Contact Phone Ext:	Not reported
Contact Email:	ryan.rietzel@itt.com
Operator Name:	ITT Aerospace Controls
Operator Address:	28150 Industry Dr
Operator City:	Valencia
Operator State:	California
Operator Zip:	91355
Operator Contact:	Ryan Rietzel
Operator Contact Title:	ESH Manager
Operator Contact Phone:	661-295-4146
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	ryan.rietzel@itt.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	661-295-4000
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Santa Clara River
Certifier:	Steve Gedalje

ITT AEROSPACE CONTROLS (Continued) **1000904860**

Certifier Title:	Director
Certification Date:	10-JUN-15
Primary Sic:	3728-Aircraft Parts and Auxiliary Equipment, NEC
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

LA Co. Site Mitigation:

Facility ID:	Not reported
Status:	Not reported
Site ID:	SD0000415
Jurisdiction:	State
Case ID:	RO0001416
Abated:	Yes
Assigned To:	Kim Clark
Entered Date:	10/11/2011
Abated Date:	Not reported

CIWQS:

Agency:	ITT Aerospace Controls
Agency Address:	28150 Industry Dr, Valencia, CA 91355
Place/Project Type:	Industrial - Aircraft Parts and Auxiliary Equipment, NEC
SIC/NAICS:	3728
Region:	4
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	4 19I014586
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	09/16/1998
Termination Date:	Not reported
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	1
Violations within 5 years:	1
Latitude:	34.45014
Longitude:	-118.62813

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LOS ANGELES COUNTY	1015730671	FLOWSERVE CORPORATION	POSTAL ADDRESS IS UNAVAILABLE		SEMS
SANTA CLARITA	S111075791	BILL SMALLS MUD SUMP	29000 AVENUE OF THE OAKS		SWF/LF
SANTA CLARITA	S105888379	HANGERS CLEANERS	26858 THE OLD RD	91355	DRYCLEANERS
VALENCIA	S121695239	HANGERS CLEANERS, BYOUNG LEE	26858 THE OLD ROAD #A	91355	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: N/A
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

Federal Institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/22/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 41

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 02/04/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 28

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 21

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List
Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 12/11/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/17/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 24
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/19/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 02/09/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/27/2019
Number of Days to Update: 43

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 02/01/2019
Next Scheduled EDR Contact: 05/13/2019
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/12/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 55

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/24/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 50

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 04/15/2019
Number of Days to Update: 52

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database

A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/04/2018
Date Data Arrived at EDR: 12/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 8

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing
Aboveground storage tank sites

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 10/11/2018
Number of Days to Update: 29

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 32

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 41

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 10/24/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 40

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/24/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/25/2019
Date Data Arrived at EDR: 03/27/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/27/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 04/03/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 01/31/2019
Date Data Arrived at EDR: 02/04/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 32

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/08/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 18

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2019
Date Data Arrived at EDR: 02/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 04/17/2019
Number of Days to Update: 34

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018
Date Data Arrived at EDR: 10/11/2018
Date Made Active in Reports: 12/07/2018
Number of Days to Update: 57

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/07/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 01/25/2019
Next Scheduled EDR Contact: 05/06/2019
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 51

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/29/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 02/11/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 38

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/22/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites
A listing of former lead smelter site locations.

Date of Government Version: 03/11/2019
Date Data Arrived at EDR: 03/14/2019
Date Made Active in Reports: 03/21/2019
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites
A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)
The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/27/2018
Date Data Arrived at EDR: 02/27/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 33

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/21/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 03/15/2019
Number of Days to Update: 10

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 74

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 07/26/2018
Date Made Active in Reports: 10/05/2018
Number of Days to Update: 71

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 03/01/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/03/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 27
Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/21/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 39
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/20/2018
Date Data Arrived at EDR: 12/21/2018
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 69
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/26/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 09/11/2018
Date Data Arrived at EDR: 09/12/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 7
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/18/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing
list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 01/23/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34
Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/26/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 01/17/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 47

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 03/19/2019
Date Data Arrived at EDR: 03/22/2019
Date Made Active in Reports: 04/09/2019
Number of Days to Update: 18

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/20/2018
Date Made Active in Reports: 08/06/2018
Number of Days to Update: 47

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/22/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 11/01/2018
Date Data Arrived at EDR: 11/02/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 41

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 01/10/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/15/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/11/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/10/2018
Date Made Active in Reports: 11/16/2018
Number of Days to Update: 37

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 02/20/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 13

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/20/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 56

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/09/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/05/2019
Number of Days to Update: 31

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 09/19/2018
Date Data Arrived at EDR: 09/20/2018
Date Made Active in Reports: 10/19/2018
Number of Days to Update: 29

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 04/27/2018
Date Data Arrived at EDR: 06/13/2018
Date Made Active in Reports: 07/17/2018
Number of Days to Update: 34
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 07/11/2018
Date Made Active in Reports: 09/13/2018
Number of Days to Update: 64
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/12/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Quarterly

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/18/2019
Number of Days to Update: 37

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/11/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/10/2018
Date Data Arrived at EDR: 12/11/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 12/12/2018
Next Scheduled EDR Contact: 03/25/2019
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 59

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 01/07/2019
Date Data Arrived at EDR: 01/08/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 58

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/24/2019
Date Data Arrived at EDR: 01/25/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 39

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 17

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 01/16/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 28

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 32

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/16/2018
Date Data Arrived at EDR: 10/18/2018
Date Made Active in Reports: 11/14/2018
Number of Days to Update: 27

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 11/19/2018
Next Scheduled EDR Contact: 03/04/2019
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 41

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

KERN COUNTY:

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/28/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 29

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/14/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 14

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/12/2019
Number of Days to Update: 28

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/17/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 12/19/2018
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 56

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/15/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 51

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Semi-Annually

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Annually

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 10/02/2018
Date Data Arrived at EDR: 10/05/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 28

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 13

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/15/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/29/2018
Date Data Arrived at EDR: 08/31/2018
Date Made Active in Reports: 09/19/2018
Number of Days to Update: 19

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/26/2019
Date Made Active in Reports: 04/01/2019
Number of Days to Update: 34

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 02/05/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 04/01/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 02/21/2019
Date Data Arrived at EDR: 02/22/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 14

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 01/25/2019
Date Data Arrived at EDR: 01/29/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 35

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/07/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/08/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 26

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/04/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 01/02/2019
Date Data Arrived at EDR: 02/05/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 31

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/12/2019
Number of Days to Update: 42

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/14/2019
Date Data Arrived at EDR: 01/18/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 46

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 34

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/29/2019
Date Data Arrived at EDR: 01/31/2019
Date Made Active in Reports: 03/08/2019
Number of Days to Update: 36

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 01/04/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 60

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2018
Date Data Arrived at EDR: 12/28/2018
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 67

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/02/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 11/15/2018
Date Data Arrived at EDR: 11/16/2018
Date Made Active in Reports: 12/13/2018
Number of Days to Update: 27

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 02/27/2019
Date Data Arrived at EDR: 02/28/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 33

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/04/2019
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 04/02/2019
Number of Days to Update: 28

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/05/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/18/2018
Date Data Arrived at EDR: 04/24/2018
Date Made Active in Reports: 06/19/2018
Number of Days to Update: 56

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 10/22/2018
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/30/2018
Number of Days to Update: 38

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

SAN DIEGO CO. SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

UST SAN FRANCISCO: Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2018
Date Data Arrived at EDR: 11/06/2018
Date Made Active in Reports: 12/14/2018
Number of Days to Update: 38

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/18/2019
Next Scheduled EDR Contact: 07/01/2019
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/15/2019
Date Made Active in Reports: 03/14/2019
Number of Days to Update: 27

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 12/12/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 34

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/23/2019
Number of Days to Update: 36

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/13/2019
Date Data Arrived at EDR: 02/19/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/21/2019
Next Scheduled EDR Contact: 06/10/2019
Data Release Frequency: Annually

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 01/30/2019
Date Data Arrived at EDR: 02/01/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 34

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/13/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2018
Date Data Arrived at EDR: 12/04/2018
Date Made Active in Reports: 01/11/2019
Number of Days to Update: 38

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/05/2019
Date Data Arrived at EDR: 03/07/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 27

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/21/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/25/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/08/2019
Date Data Arrived at EDR: 01/10/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 04/08/2019
Next Scheduled EDR Contact: 07/08/2019
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 12/11/2018
Date Data Arrived at EDR: 12/13/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 33

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 02/28/2019
Date Data Arrived at EDR: 03/01/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 33

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/27/2019
Next Scheduled EDR Contact: 06/17/2019
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/13/2018
Date Data Arrived at EDR: 12/18/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 28

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2019
Date Data Arrived at EDR: 01/23/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 42

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 12/27/2018
Date Made Active in Reports: 01/15/2019
Number of Days to Update: 19

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 01/31/2019
Next Scheduled EDR Contact: 05/20/2019
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/22/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 02/28/2019
Number of Days to Update: 35

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/07/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: Quarterly

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/24/2019
Date Made Active in Reports: 03/07/2019
Number of Days to Update: 42
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/23/2019
Next Scheduled EDR Contact: 08/05/2019
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/26/2019
Date Data Arrived at EDR: 03/13/2019
Date Made Active in Reports: 04/03/2019
Number of Days to Update: 21
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/13/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/26/2018
Date Data Arrived at EDR: 01/03/2019
Date Made Active in Reports: 01/16/2019
Number of Days to Update: 13
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/29/2019
Next Scheduled EDR Contact: 07/15/2019
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 02/08/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/06/2019
Number of Days to Update: 22
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 01/28/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 02/11/2019
Date Data Arrived at EDR: 02/12/2019
Date Made Active in Reports: 03/04/2019
Number of Days to Update: 20

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2019
Next Scheduled EDR Contact: 05/27/2019
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 07/13/2018
Date Made Active in Reports: 08/01/2018
Number of Days to Update: 19

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/10/2019
Next Scheduled EDR Contact: 07/22/2019
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 01/30/2019
Date Made Active in Reports: 02/14/2019
Number of Days to Update: 15

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/30/2019
Next Scheduled EDR Contact: 05/11/2019
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 10/23/2018
Date Made Active in Reports: 11/27/2018
Number of Days to Update: 35

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/15/2019
Next Scheduled EDR Contact: 07/29/2019
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/19/2019
Next Scheduled EDR Contact: 06/03/2019
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/11/2019
Next Scheduled EDR Contact: 06/24/2019
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

LADWP OLD ROAD BRIDGE
THE OLD ROAD AND CASTAIC CREEK
CASTAIC, CA 91384

TARGET PROPERTY COORDINATES

Latitude (North):	34.451368 - 34° 27' 4.92"
Longitude (West):	118.615176 - 118° 36' 54.63"
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	351625.0
UTM Y (Meters):	3813192.0
Elevation:	1028 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5636847 NEWHALL, CA
Version Date:	2012
West Map:	5636837 VAL VERDE, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

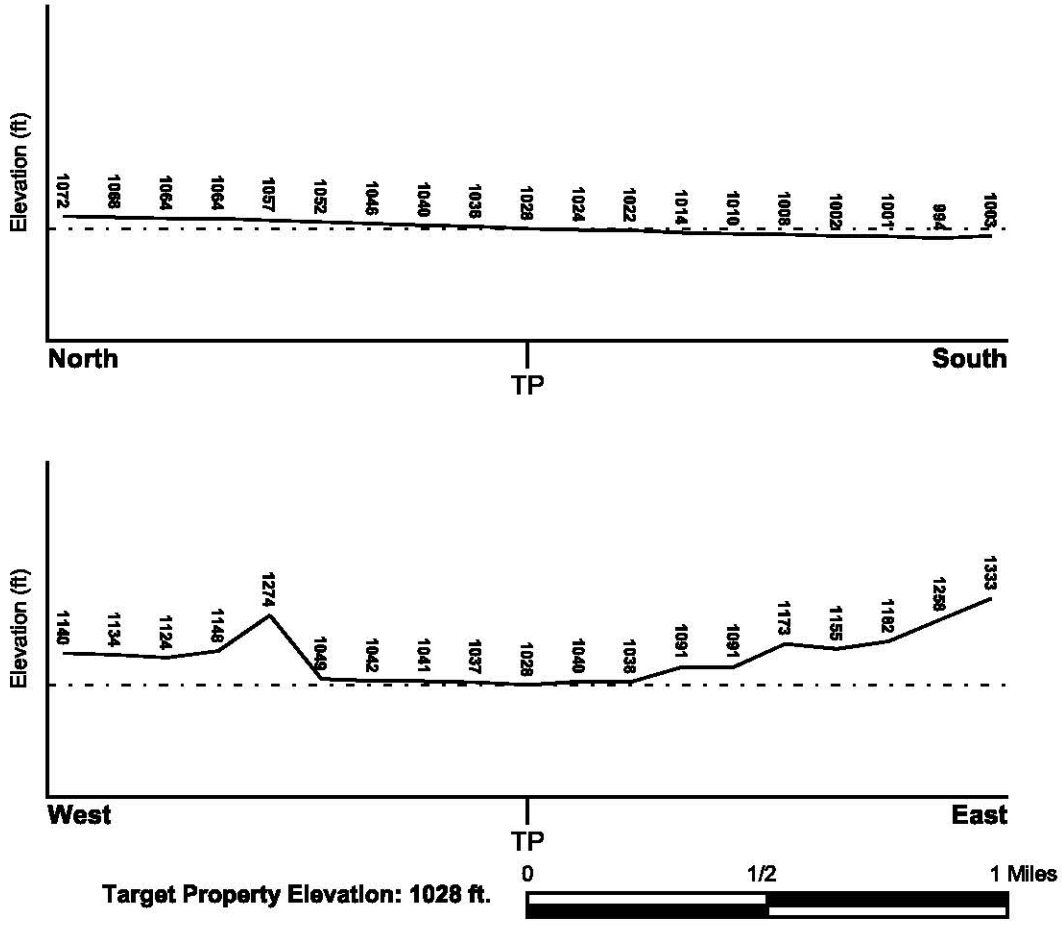
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C0805F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C0800F	FEMA FIRM Flood data
06037C0815F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
NEWHALL	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
6	1/2 - 1 Mile SE	S, SW
1G	1/2 - 1 Mile SE	S, SW

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

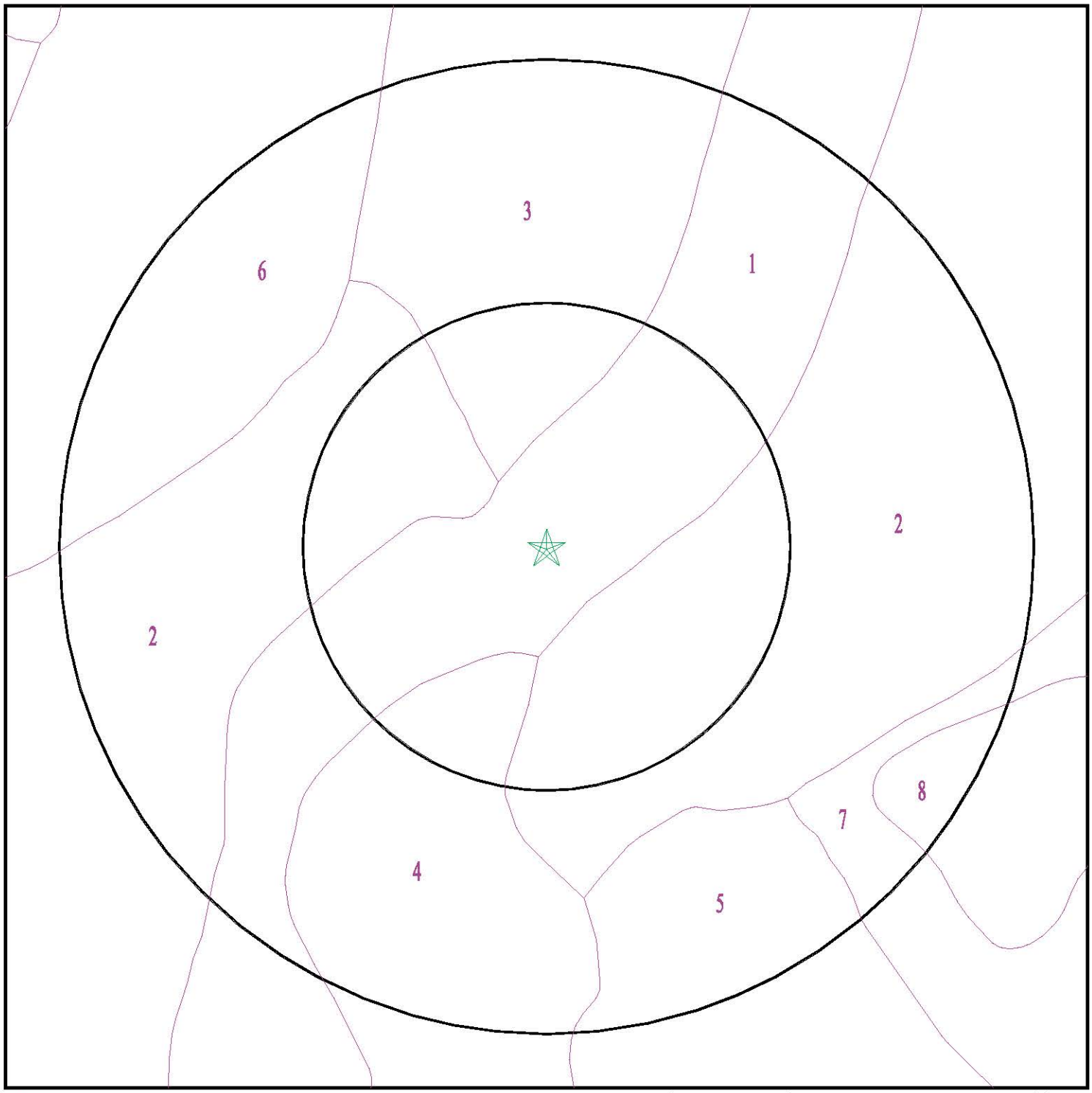
Era:	Cenozoic
System:	Tertiary
Series:	Pliocene
Code:	Tpc *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Continental Deposits

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 5631132.2s



SITE NAME:	LADWP Old Road Bridge	CLIENT:	Dudek & Associates
ADDRESS:	The Old Road and Castaic Creek Castaic CA 91384	CONTACT:	Audrey Herschberger
LAT/LONG:	34.451368 / 118.615176	INQUIRY #:	5631132.2s
		DATE:	April 24, 2019 12:14 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Riverwash

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	5 inches	59 inches	stratified coarse sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

Soil Map ID: 2

Soil Component Name: Hanford

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	7 inches	70 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

Soil Map ID: 3

Soil Component Name: Cortina

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6
2	11 inches	27 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6
3	27 inches	59 inches	very cobbly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6

Soil Map ID: 4

Soil Component Name: Sandy alluvial land

Soil Surface Texture: sand

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 25 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
2	9 inches	29 inches	stratified sand to loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6
3	29 inches	59 inches	stratified gravelly sand to gravelly loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 8.4 Min: 6.6

Soil Map ID: 5

Soil Component Name: Metz

Soil Surface Texture: loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6
2	7 inches	59 inches	stratified sand to loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.6

Soil Map ID: 6

Soil Component Name: Cortina

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6
2	11 inches	27 inches	very gravelly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6
3	27 inches	59 inches	very cobbly sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Gravels, Gravels with fines, Silty Gravel	Max: 141 Min: 42	Max: 7.8 Min: 6.6

Soil Map ID: 7

Soil Component Name: Castaic

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	9 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0.42	Max: Min:
2	9 inches	25 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0.42	Max: Min:
3	25 inches	29 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 1.4 Min: 0.42	Max: Min:

Soil Map ID: 8

Soil Component Name: Zamora

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	11 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
3	35 inches	83 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 14 Min: 4	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 0.001 miles
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	4564	1/8 - 1/4 Mile West
A2	4563	1/8 - 1/4 Mile SW
A3	4562	1/8 - 1/4 Mile SW
4	CADW60000006232	1/2 - 1 Mile NNE
5	4561	1/2 - 1 Mile East
7	CADW60000006231	1/2 - 1 Mile South

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

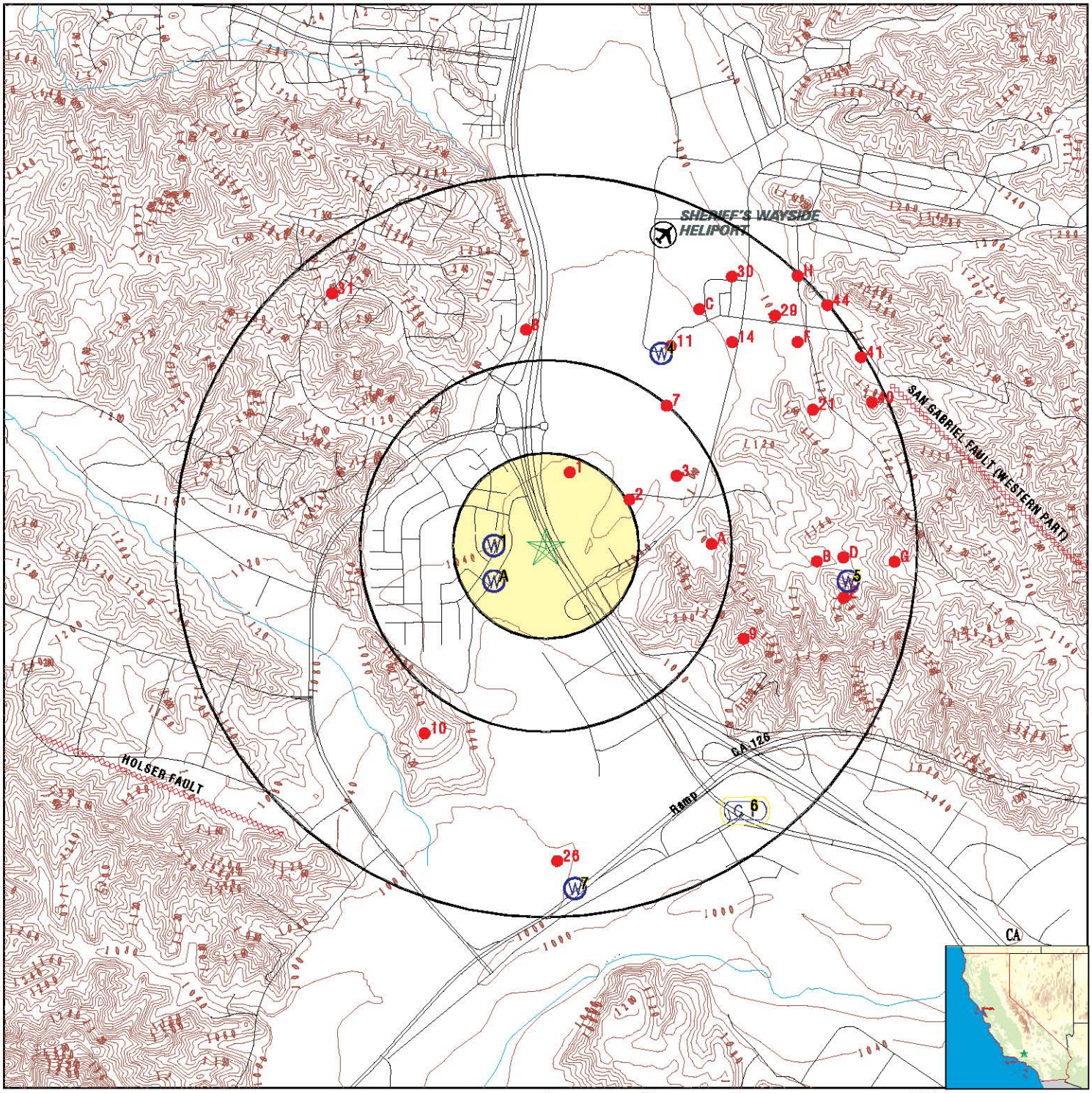
MAP ID	WELL ID	LOCATION FROM TP
1	CAOG11000281178	1/8 - 1/4 Mile NNE
2	CAOG11000281199	1/4 - 1/2 Mile ENE
3	CAOG11000281200	1/4 - 1/2 Mile ENE
A6	CAOG11000294435	1/4 - 1/2 Mile East
A5	CAOG11000294434	1/4 - 1/2 Mile East
A4	CAOG11000294433	1/4 - 1/2 Mile East
7	CAOG11000281198	1/4 - 1/2 Mile NE
8	CAOG11000281179	1/2 - 1 Mile North
9	CAOG11000281221	1/2 - 1 Mile ESE
10	CAOG11000280959	1/2 - 1 Mile SSW
11	CAOG11000281042	1/2 - 1 Mile NNE
B12	CAOG11000281261	1/2 - 1 Mile East
B13	CAOG11000281262	1/2 - 1 Mile East
14	CAOG11000281014	1/2 - 1 Mile NE
B16	CAOG11000282964	1/2 - 1 Mile East
B15	CAOG11000282963	1/2 - 1 Mile East
C17	CAOG11000281043	1/2 - 1 Mile NNE
C18	CAOG11000281044	1/2 - 1 Mile NNE
D20	CAOG11000282966	1/2 - 1 Mile East
D19	CAOG11000282965	1/2 - 1 Mile East
21	CAOG11000281015	1/2 - 1 Mile ENE
E22	CAOG11000281266	1/2 - 1 Mile East
E23	CAOG11000281267	1/2 - 1 Mile East
D25	CAOG11000282968	1/2 - 1 Mile East
D24	CAOG11000282967	1/2 - 1 Mile East

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
26	CAOG11000280754	1/2 - 1 Mile South
F28	CAOG11000281013	1/2 - 1 Mile NE
F27	CAOG11000281012	1/2 - 1 Mile NE
29	CAOG11000281190	1/2 - 1 Mile NE
30	CAOG11000281183	1/2 - 1 Mile NE
31	CAOG11000280641	1/2 - 1 Mile NW
G33	CAOG11000282958	1/2 - 1 Mile East
G32	CAOG11000282957	1/2 - 1 Mile East
G35	CAOG11000282962	1/2 - 1 Mile East
G34	CAOG11000282961	1/2 - 1 Mile East
G37	CAOG11000282960	1/2 - 1 Mile East
G36	CAOG11000282959	1/2 - 1 Mile East
G39	CAOG11000281260	1/2 - 1 Mile East
G38	CAOG11000281259	1/2 - 1 Mile East
40	CAOG11000281196	1/2 - 1 Mile ENE
41	CAOG11000281184	1/2 - 1 Mile ENE
H42	CAOG11000281040	1/2 - 1 Mile NE
H43	CAOG11000281041	1/2 - 1 Mile NE
44	CAOG11000281191	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 5631132.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	LADWP Old Road Bridge	CLIENT:	Dudek & Associates
ADDRESS:	The Old Road and Castaic Creek Castaic CA 91384	CONTACT:	Audrey Herschberger
LAT/LONG:	34.451368 / 118.615176	INQUIRY #:	5631132.2s
		DATE:	April 24, 2019 12:14 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database: CA WELLS
EDR ID Number: 4564

1
West
1/8 - 1/4 Mile
Higher

Seq:	4564	Prim sta c:	04N/17W-12C01 S
Frds no:	1910240021	County:	19
District:	07	User id:	4TH
System no:	1910240	Water type:	G
Source nam:	WELL D	Station ty:	WELL/AMBNT/MUN/INAKE/SUPPLY
Latitude:	342705.0	Longitude:	1183700.0
Precision:	3	Status:	AU
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910240	System nam:	VALENCIA WC
Hqname:	Not Reported	Address:	28769 CASTAIC CANYON ROAD
City:	VALENCIA	State:	Not Reported
Zip:	91355	Zip ext:	Not Reported
Pop serv:	46500	Connection:	13396
Area serve:	VALENCIA		

Sample date:	06-JUL-17	Finding:	0.994
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		

Sample date:	06-JUL-17	Finding:	1.1
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	06-JUL-17	Finding:	610.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	06-JUL-17	Finding:	0.76
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		

Sample date:	06-JUL-17	Finding:	260.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	06-JUL-17	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUL-17	Finding:	4.2
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUL-17	Finding:	110.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUL-17	Finding:	36.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	06-JUL-17	Finding:	101.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	401.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	1.1
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	06-JUL-17	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	230.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	7.65
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	06-JUL-17	Finding:	870.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	530.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	2.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-16	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	1.5
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	980.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	580.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	14-JUL-16	Finding:	0.76
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	14-JUL-16	Finding:	360.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	14-JUL-16	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	4.6
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	120.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	49.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	130.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	2.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	14-JUL-16	Finding:	300.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	7.9
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	14-JUL-16	Finding:	1500.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	13-AUG-15	Finding:	9.5e-002
Chemical:	PHOSPHATE, ORTHO	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	7.6
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	290.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	240.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	09-JUL-15	Finding:	12000.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	0.12
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	09-JUL-15	Finding:	490.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	46.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	120.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	4.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	1.1
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	350.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	09-JUL-15	Finding:	0.75
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	09-JUL-15	Finding:	540.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	09-JUL-15	Finding:	980.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	2500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	09-JUL-15	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	09-JUL-15	Finding:	0.53
Chemical:	BROMIDE	Report units:	MG/L

Dlr:	0.		
Sample date:	07-AUG-14	Finding:	2800.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	07-AUG-14	Finding:	0.13
Chemical:	PHOSPHATE, ORTHO	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1400.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	7.7
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	220.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	280.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	480.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	120.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	43.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	110.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	4.5
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	99.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	320.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-14	Finding:	0.83
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	510.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		

Sample date:	02-JUL-14	Finding:	920.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	1.2
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	9200.
Chemical:	CARBON DIOXIDE	Report units:	UG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	5.7e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-JUL-14	Finding:	0.46
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-14	Finding:	2900.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-13	Finding:	852.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	12.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	3500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUL-13	Finding:	5.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	02-JUL-13	Finding:	0.41
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	02-JUL-13	Finding:	520.
Chemical:	BORON	Report units:	UG/L
Dlr:	100.		
Sample date:	02-JUL-13	Finding:	0.8
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	02-JUL-13	Finding:	299.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	02-JUL-13	Finding:	94.9
Chemical:	CHLORIDE	Report units:	MG/L

Dir:	0.		
Sample date:	02-JUL-13	Finding:	4.6
Chemical:	POTASSIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	111.
Chemical:	SODIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	47.
Chemical:	MAGNESIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	125.
Chemical:	CALCIUM	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	505.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	284.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	233.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dir:	0.		
Sample date:	02-JUL-13	Finding:	7.5
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dir:	0.		
Sample date:	02-JUL-13	Finding:	1140.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dir:	0.		
Sample date:	02-JUL-13	Finding:	1.01
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dir:	0.		
Sample date:	05-JUN-13	Finding:	0.96
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	05-JUN-13	Finding:	0.45
Chemical:	RADIUM 226 MDA95	Report units:	PCI/L
Dir:	0.		
Sample date:	05-JUN-13	Finding:	2.8
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dir:	1.		
Sample date:	05-JUN-13	Finding:	1.19
Chemical:	GROSS BETA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		
Sample date:	05-JUN-13	Finding:	1.68
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dir:	0.		

Sample date:	05-JUN-13	Finding:	3.49
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	05-JUN-13	Finding:	0.24
Chemical:	RADIUM 226 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	12.3
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	4310.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	11-JUL-12	Finding:	7.e-002
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	11-JUL-12	Finding:	0.97
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	929.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	0.73
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	11-JUL-12	Finding:	327.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	11-JUL-12	Finding:	94.3
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	4.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	105.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	48.3
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	128.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	518.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	277.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L

Dlr:	0.		
Sample date:	11-JUL-12	Finding:	227.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	7.46
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	1300.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	11-JUL-12	Finding:	0.36
Chemical:	BROMIDE	Report units:	MG/L
Dlr:	0.		

A2
SW
1/8 - 1/4 Mile
Higher

CA WELLS 4563

Seq:	4563	Prim sta c:	04N/17W-12B04 S
Frds no:	1910185003	County:	19
District:	15	User id:	MET
System no:	1910185	Water type:	G
Source nam:	WELL 08 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	342700.0	Longitude:	1183700.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910185	System nam:	LOS ANGELES CO WW DIST 36-VAL VERDE
Hqname:	LOS ANGELES CO WW DIST 36	Address:	900 SOUTH FREMONT AVE., 9TH FL
City:	ALHAMBRA	State:	CA
Zip:	91803	Zip ext:	Not Reported
Pop serv:	2319	Connection:	802
Area serve:	VAL VERDE		

A3
SW
1/8 - 1/4 Mile
Higher

CA WELLS 4562

Seq:	4562	Prim sta c:	04N/17W-12B02 S
Frds no:	1910185008	County:	19
District:	15	User id:	MET
System no:	1910185	Water type:	G
Source nam:	WELL 16 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	342700.0	Longitude:	1183700.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	1910185	System nam:	LOS ANGELES CO WW DIST 36-VAL VERDE

Hqname:	LOS ANGELES CO WW DIST 36	Address:	900 SOUTH FREMONT AVE., 9TH FL
City:	ALHAMBRA	State:	CA
Zip:	91803	Zip ext:	Not Reported
Pop serv:	2319	Connection:	802
Area serve:	VAL VERDE		

4
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADW60000006232**

Objectid:	6232	Latitude:	34.45889
Longitude:	-118.60973	Site code:	344589N1186097W001
State well numbe:	04N17W01J001S	Local well name:	'6994'
Well use id:	3	Well use descrip:	Irrigation
County id:	19	County name:	Los Angeles
Basin code:	'4-4.07'	Basin desc:	Santa Clara River Valley East
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000006232		

5
East
1/2 - 1 Mile
Higher

CA WELLS **4561**

Seq:	4561	Prim sta c:	04N/17W-01J01 S
Frds no:	1910185005	County:	19
District:	15	User id:	MET
System no:	1910185	Water type:	G
Source nam:	WELL 11 - ABANDONED	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	342700.0	Longitude:	1183600.0
Precision:	8	Status:	AB
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	1910185	System nam:	LOS ANGELES CO WW DIST 36-VAL VERDE
Hqname:	LOS ANGELES CO WW DIST 36	Address:	900 SOUTH FREMONT AVE., 9TH FL
City:	ALHAMBRA	State:	CA
Zip:	91803	Zip ext:	Not Reported
Pop serv:	2319	Connection:	802
Area serve:	VAL VERDE		

6
SE
1/2 - 1 Mile
Lower

AQUIFLOW **69722**

Site ID:	I-10662
Groundwater Flow:	S, SW
Shallow Water Depth:	15.46
Deep Water Depth:	23.65
Average Water Depth:	Not Reported
Date:	03/25/1999

7
South
1/2 - 1 Mile
Lower

CA WELLS **CADW60000006231**

Objectid:	6231	Latitude:	34.43799
Longitude:	-118.6138	Site code:	344380N1186138W001

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

State well numbe:	04N17W13C002S	Local well name:	'6986'
Well use id:	3	Well use descrip:	Irrigation
County id:	19	County name:	Los Angeles
Basin code:	'4-4.07'	Basin desc:	Santa Clara River Valley East
Dwr region id:	80238	Dwr region:	Southern Region Office
Site id:	CADW60000006231		

1G
SE
1/2 - 1 Mile
Lower

Site ID:	I-10662
Groundwater Flow:	S, SW
Shallow Water Depth:	15.46
Deep Water Depth:	23.65
Average Water Depth:	Not Reported
Date:	03/25/1999

AQUIFLOW **69722**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
NNE
1/8 - 1/4 Mile

OIL_GAS **CAOG11000281178**

Districtnu:	2	Apinumber:	03707262
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	British-American Oil Producing Co.	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	1	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Wayside Honor Farm	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281178		

2
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000281199**

Districtnu:	2	Apinumber:	03707281
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	27
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281199		

3
ENE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000281200**

Districtnu:	2	Apinumber:	03707282
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	1	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	29

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281200		

A6
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000294435**

Districtnu:	2	Apinumber:	03707615
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	opr	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-FEB-59
Welldeptha:	0	Redrillfoo:	1170
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000294435		

A5
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000294434**

Districtnu:	2	Apinumber:	03707615
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	opr	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-FEB-59
Welldeptha:	0	Redrillfoo:	2242
Abandonedd:	Not Reported	Completion:	11-NOV-08
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000294434		

A4
East
1/4 - 1/2 Mile

OIL_GAS **CAOG11000294433**

Districtnu:	2	Apinumber:	03707615
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A

Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	opr	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	26
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-FEB-59
Welldeptha:	0	Redrillfoo:	9950
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000294433		

7
NE
1/4 - 1/2 Mile

OIL_GAS **CAOG11000281198**

Districtnu:	2	Apinumber:	03707280
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	1	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	21
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281198		

8
North
1/2 - 1 Mile

OIL_GAS **CAOG11000281179**

Districtnu:	2	Apinumber:	03707263
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	1	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Newhall Land & Farming	Wellnumber:	C-1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281179		

Map ID
Direction
Distance

Database EDR ID Number

9
ESE
1/2 - 1 Mile

OIL_GAS **CAOG11000281221**

Districtnu:	2	Apinumber:	03707300
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Newhall	Wellnumber:	D-3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281221		

10
SSW
1/2 - 1 Mile

OIL_GAS **CAOG11000280959**

Districtnu:	2	Apinumber:	03706109
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Chevron U.S.A. Inc.	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Newhall	Wellnumber:	D-2
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280959		

11
NNE
1/2 - 1 Mile

OIL_GAS **CAOG11000281042**

Districtnu:	2	Apinumber:	03706403
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	1	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	2

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000281042		

B12
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281261**

Districtnu:	2	Apinumber:	03707614
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281261		

B13
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281262**

Districtnu:	2	Apinumber:	03707614
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281262		

14
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281014**

Districtnu:	2	Apinumber:	03706286
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P

Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000281014		

B16
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282964**

Districtnu:	2	Apinumber:	03721683
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282964		

B15
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282963**

Districtnu:	2	Apinumber:	03721683
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282963		

Map ID
Direction
Distance — Database — EDR ID Number

C17
NNE
1/2 - 1 Mile — **OIL_GAS** — **CAOG11000281043**

Districtnu:	2	Apinumber:	03706404
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000281043		

C18
NNE
1/2 - 1 Mile — **OIL_GAS** — **CAOG11000281044**

Districtnu:	2	Apinumber:	03706404
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	7
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000281044		

D20
East
1/2 - 1 Mile — **OIL_GAS** — **CAOG11000282966**

Districtnu:	2	Apinumber:	03721684
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25B

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282966		

D19
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282965**

Districtnu:	2	Apinumber:	03721684
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282965		

21
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000281015**

Districtnu:	2	Apinumber:	03706287
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	4
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000281015		

E22
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281266**

Districtnu:	2	Apinumber:	03707617
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A

Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281266		

E23
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281267**

Districtnu:	2	Apinumber:	03707617
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	30
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281267		

D25
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282968**

Districtnu:	2	Apinumber:	03721685
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282968		

Map ID
Direction
Distance

Database EDR ID Number

D24
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282967**

Districtnu:	2	Apinumber:	03721685
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	25C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282967		

26
South
1/2 - 1 Mile

OIL_GAS **CAOG11000280754**

Districtnu:	2	Apinumber:	03705490
Bimwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	ExxonMobil Corporation	Countyname:	Los Angeles
Fieldname:	Any Field	Areaname:	Any Area
Section:	12	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Newhall Land & Farming Co.	Wellnumber:	B1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280754		

F28
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281013**

Districtnu:	2	Apinumber:	03706285
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	3

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-JAN-51
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PWF
Site id:	CAOG11000281013		

F27
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281012**

Districtnu:	2	Apinumber:	03706285
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	3
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	26-JAN-51
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PWF
Site id:	CAOG11000281012		

29
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281190**

Districtnu:	2	Apinumber:	03707274
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	15
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000281190		

30
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281183**

Districtnu:	2	Apinumber:	03707268
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P

Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	5
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	PWD
Site id:	CAOG11000281183		

31
NW
1/2 - 1 Mile

OIL_GAS **CAOG11000280641**

Districtnu:	2	Apinumber:	03705146
Blmwell:	N	Redrillcan:	No
Dryhole:	Y	Wellstatus:	P
Operatorna:	Atlantic Oil Company	Countyname:	Los Angeles
Fieldname:	Hasley Canyon	Areaname:	Any Area
Section:	2	Township:	04N
Range:	17W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Good	Wellnumber:	1
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	PDH
Site id:	CAOG11000280641		

G33
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282958**

Districtnu:	2	Apinumber:	03721680
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	22-SEP-76
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282958		

Map ID
Direction
Distance

Database EDR ID Number

G32
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282957**

Districtnu:	2	Apinumber:	03721680
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24A
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	22-SEP-76
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282957		

G35
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282962**

Districtnu:	2	Apinumber:	03721682
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24C
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282962		

G34
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282961**

Districtnu:	2	Apinumber:	03721682
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24C

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282961		

G37
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282960**

Districtnu:	2	Apinumber:	03721681
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282960		

G36
East
1/2 - 1 Mile

OIL_GAS **CAOG11000282959**

Districtnu:	2	Apinumber:	03721681
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24B
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000282959		

G39
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281260**

Districtnu:	2	Apinumber:	03707613
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A

Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281260		

G38
East
1/2 - 1 Mile

OIL_GAS **CAOG11000281259**

Districtnu:	2	Apinumber:	03707613
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Southern California Gas Company	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Southeast
Section:	7	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	WEZU	Wellnumber:	24
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AGS
Site id:	CAOG11000281259		

40
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000281196**

Districtnu:	2	Apinumber:	03707278
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	hud	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	19
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000281196		

Map ID
Direction
Distance

Database EDR ID Number

41
ENE
1/2 - 1 Mile

OIL_GAS **CAOG11000281184**

Districtnu:	2	Apinumber:	03707269
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	6
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AOG
Site id:	CAOG11000281184		

H42
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281040**

Districtnu:	2	Apinumber:	03706402
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	8
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AWD
Site id:	CAOG11000281040		

H43
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281041**

Districtnu:	2	Apinumber:	03706402
Blmwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	A
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	8

Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	AWD
Site id:	CAOG11000281041		

44
NE
1/2 - 1 Mile

OIL_GAS **CAOG11000281191**

Districtnu:	2	Apinumber:	03707275
Bimwell:	N	Redrillcan:	No
Dryhole:	N	Wellstatus:	P
Operatorna:	Vintage Production California LLC	Countyname:	Los Angeles
Fieldname:	Honor Rancho	Areaname:	Main
Section:	6	Township:	04N
Range:	16W	Basemeridi:	SB
Elevation:	Not Reported	Locationde:	Not Reported
Gissourcec:	gps	Comments:	Not Reported
Leasename:	Honor Rancho 'A' (NCT-1)	Wellnumber:	16
Epawell:	N	Hydraulica:	N
Confidenti:	N	Spuddate:	Not Reported
Welldeptha:	0	Redrillfoo:	0
Abandonedd:	Not Reported	Completion:	Not Reported
Directiona:	Not Directionally drilled	Gissymbol:	POG
Site id:	CAOG11000281191		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91384	23	0

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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ATTACHMENT B

Historic Aerial Photographs

LADWP Old Road Bridge

The Old Road and Castaic Creek

Castaic, CA 91384

Inquiry Number: 5631132.8

April 25, 2019

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/25/19

Site Name:

LADWP Old Road Bridge
The Old Road and Castaic Cre
Castaic, CA 91384
EDR Inquiry # 5631132.8

Client Name:

Dudek & Associates
605 Third Street
Encinitas, CA 92024
Contact: Audrey Herschberger

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1981	1"=500'	Flight Date: February 15, 1981	EDR Proprietary Brewster Pacific
1979	1"=500'	Flight Date: February 05, 1979	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: October 11, 1972	EDR Proprietary Brewster Pacific
1969	1"=500'	Flight Date: July 25, 1969	USGS
1952	1"=500'	Flight Date: March 11, 1952	USDA
1947	1"=500'	Flight Date: August 16, 1947	USGS
1940	1"=500'	Flight Date: May 13, 1940	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

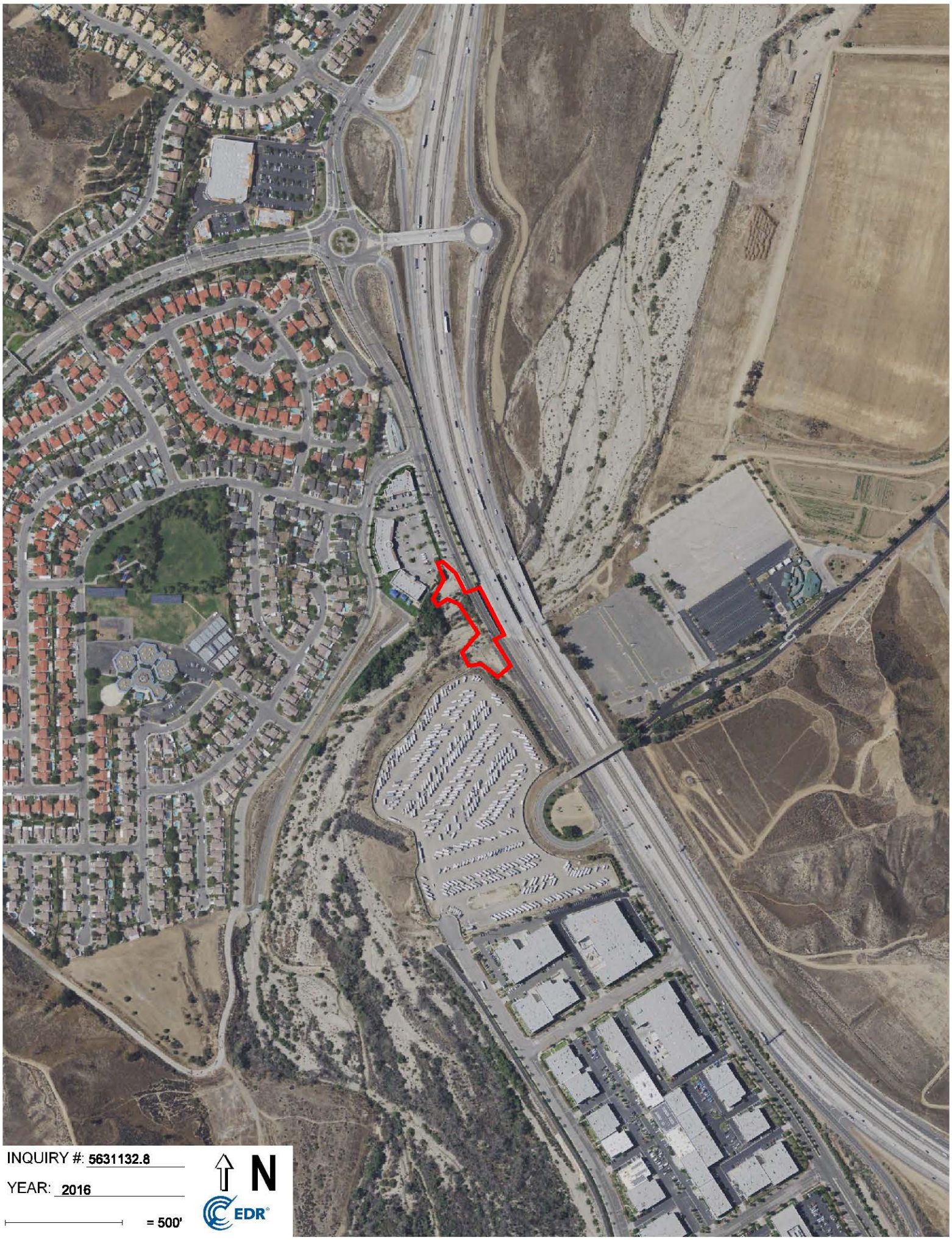
When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

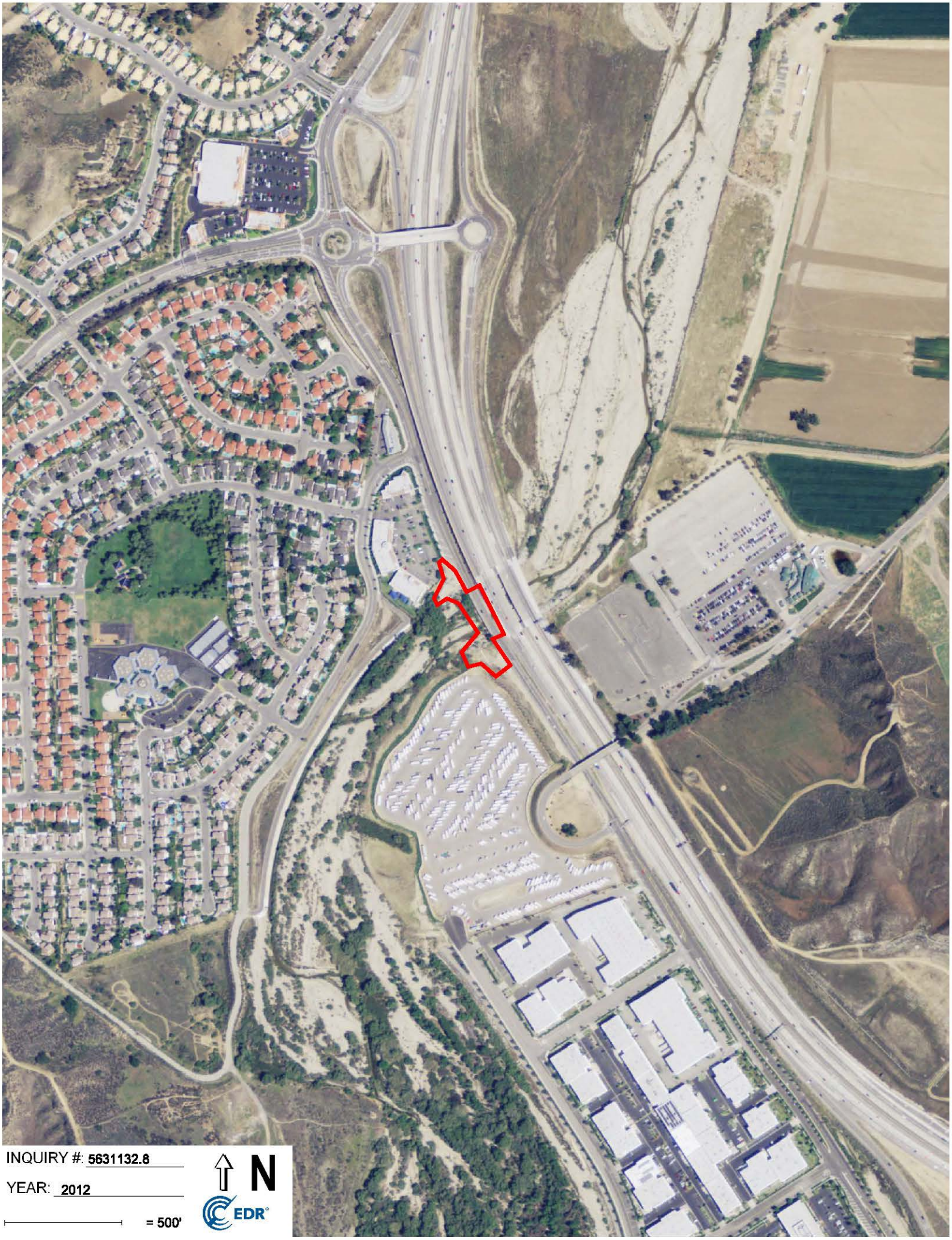
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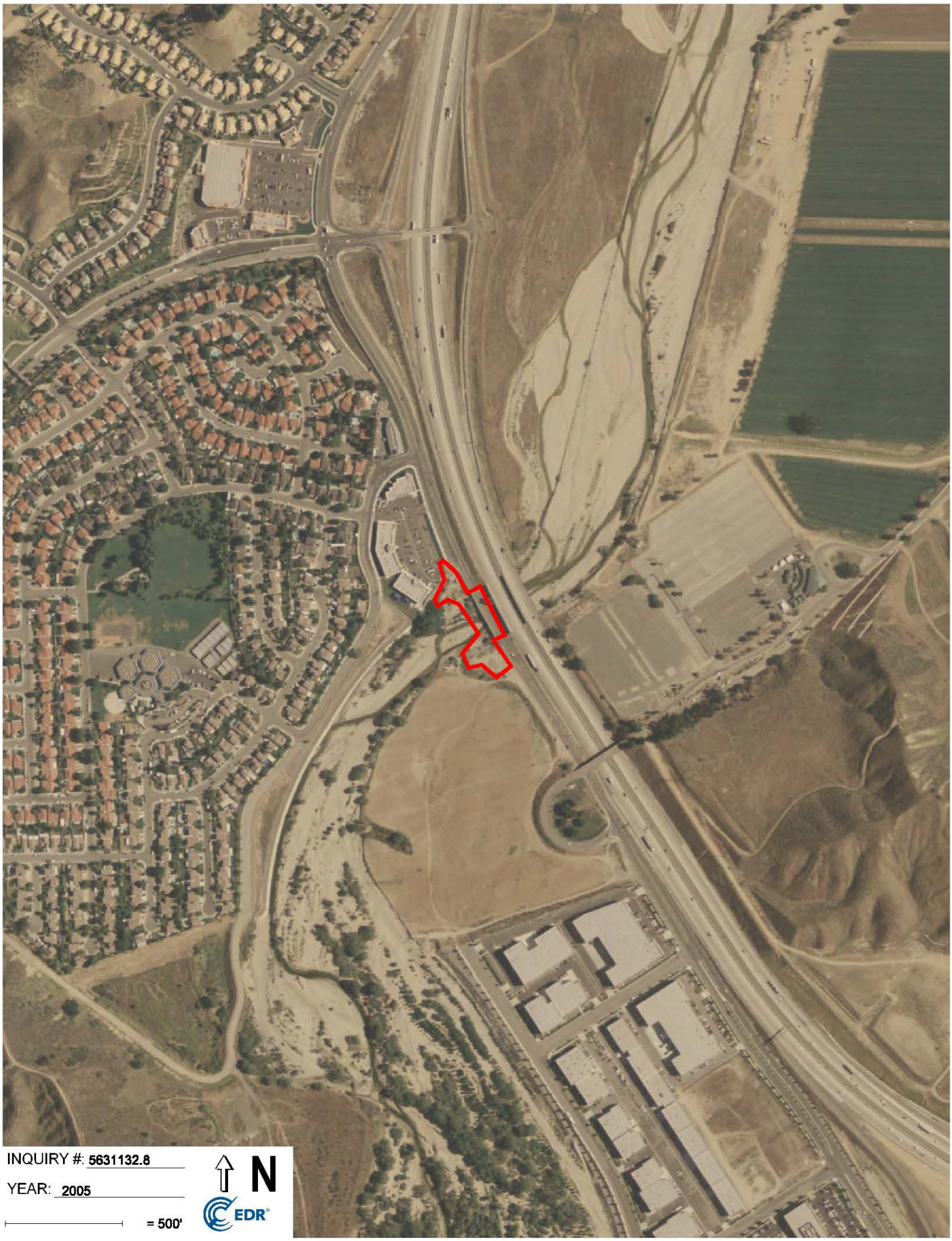
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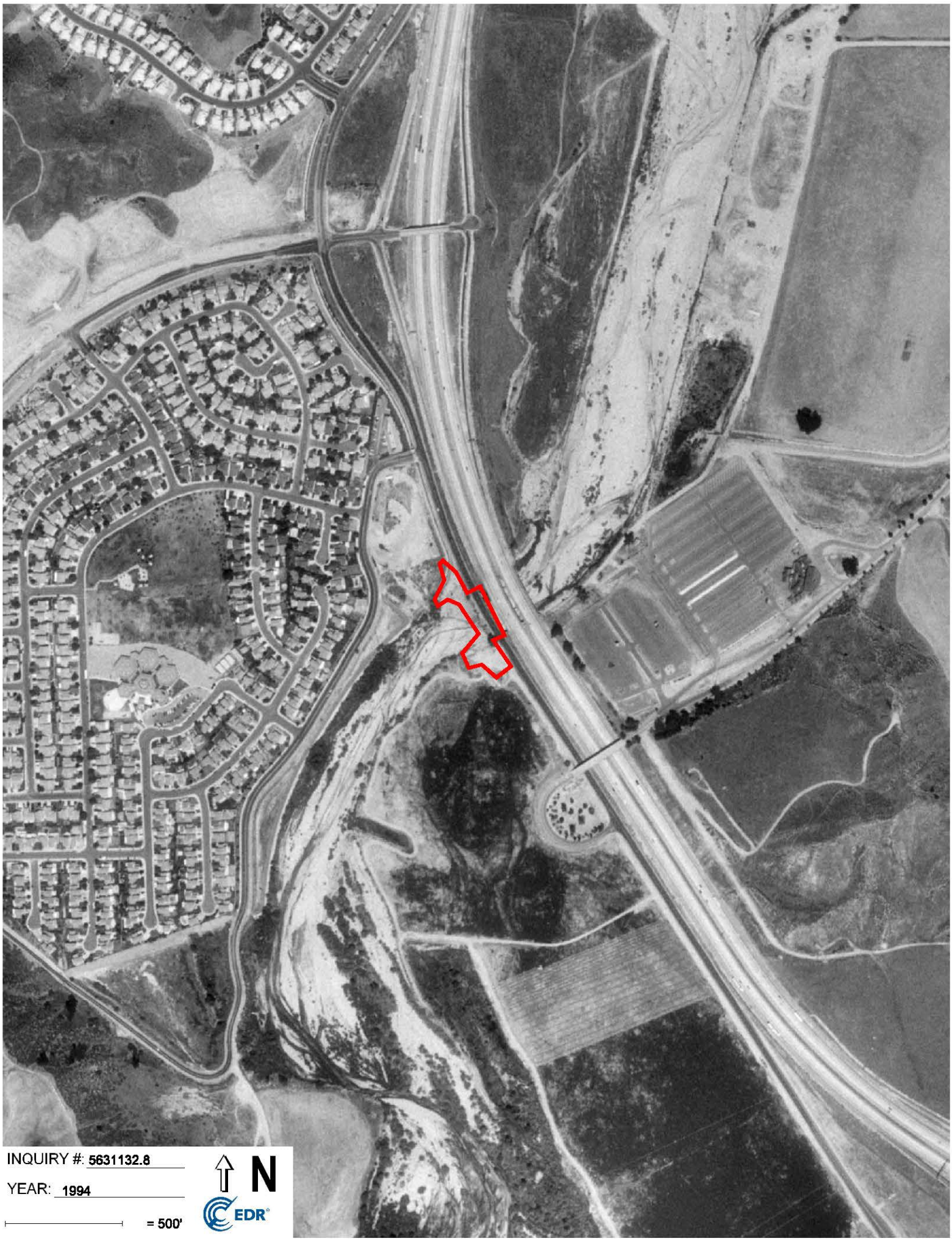

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N
EDR


INQUIRY #: 5631132.8
YEAR: 2012
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 2002
= 500'
N
EDR



INQUIRY #: 5631132.8

YEAR: 1994

= 500'

N

EDR


INQUIRY #: 5631132.8
YEAR: 1989
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 1981
= 500'
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EDR



INQUIRY #: 5631132.8

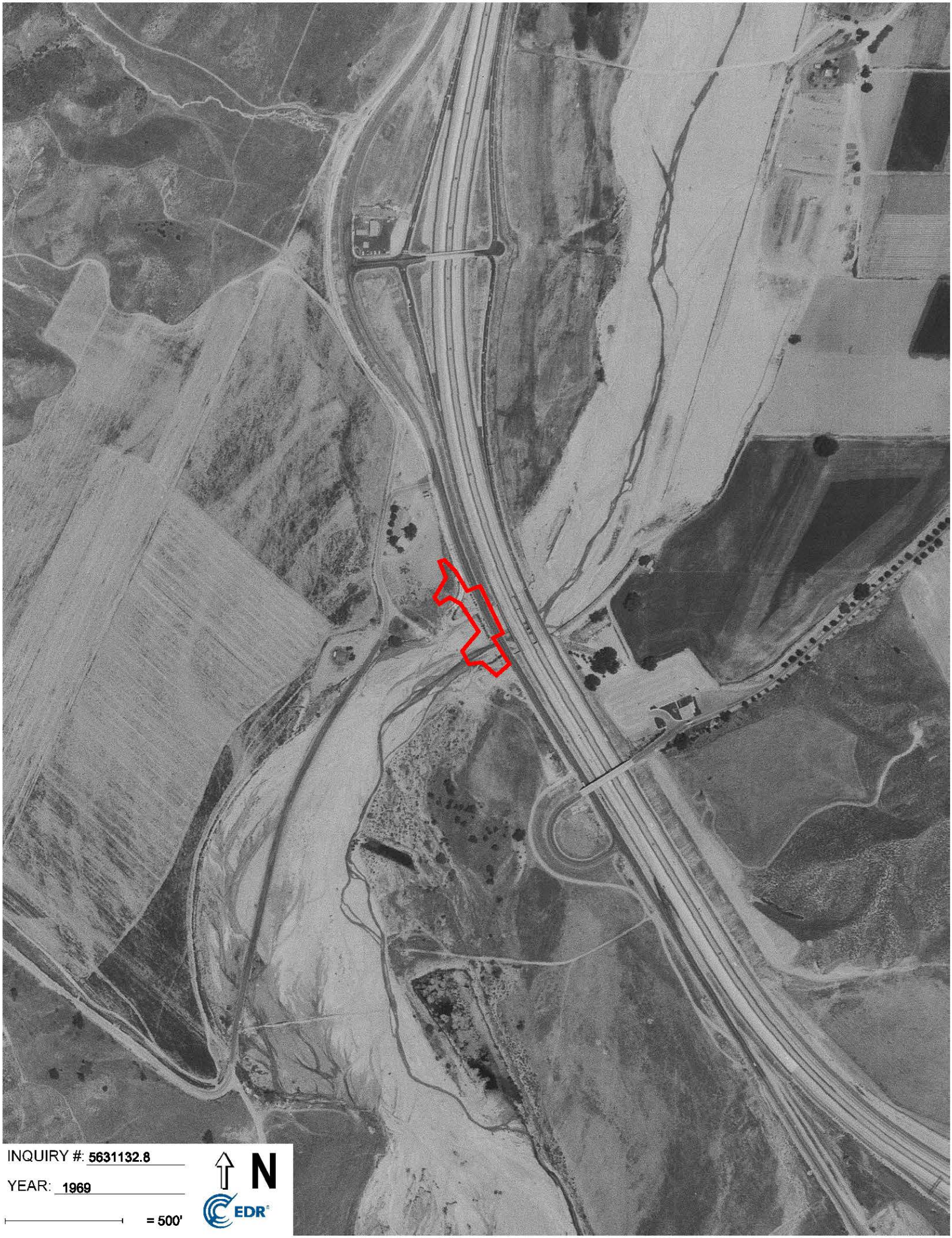
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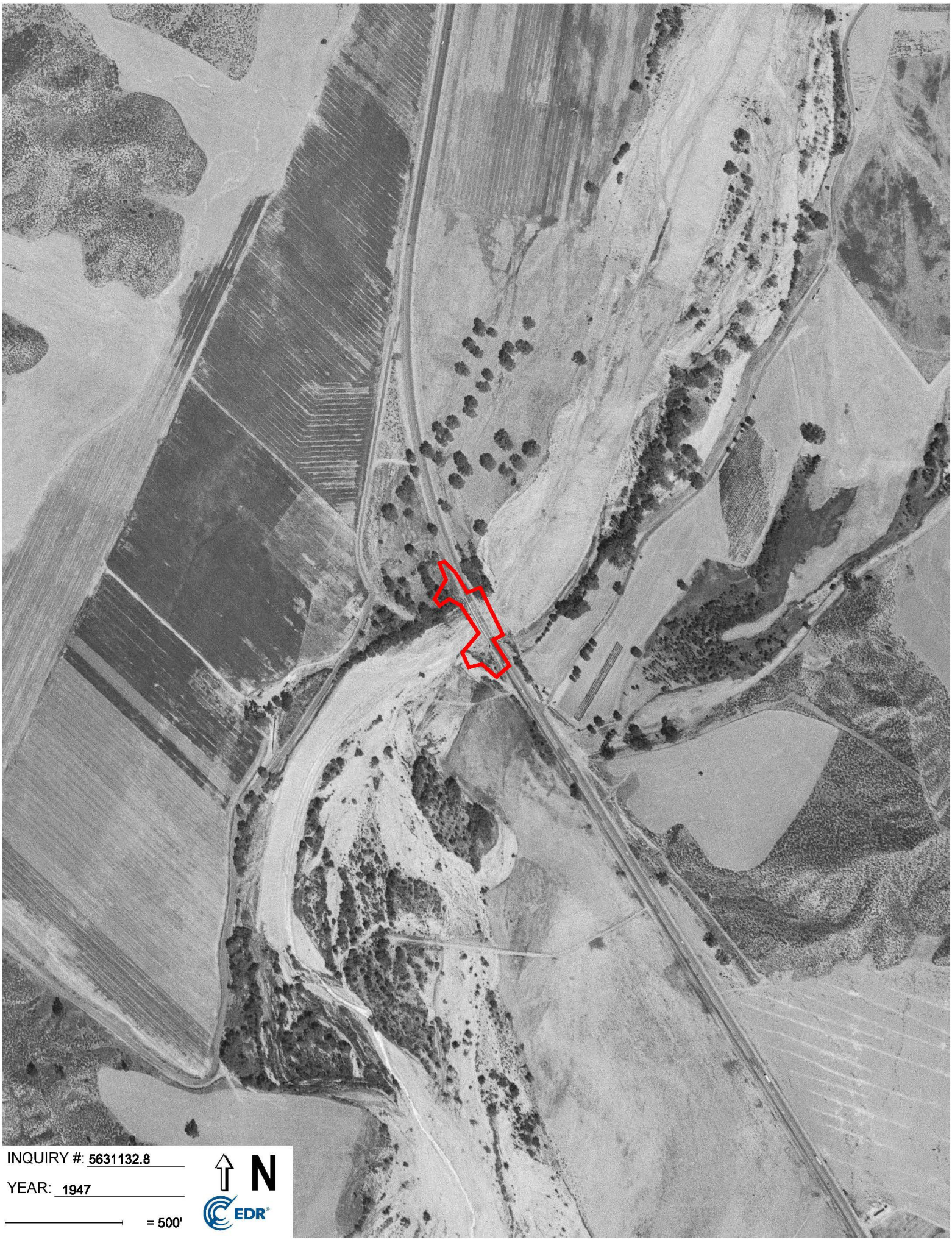
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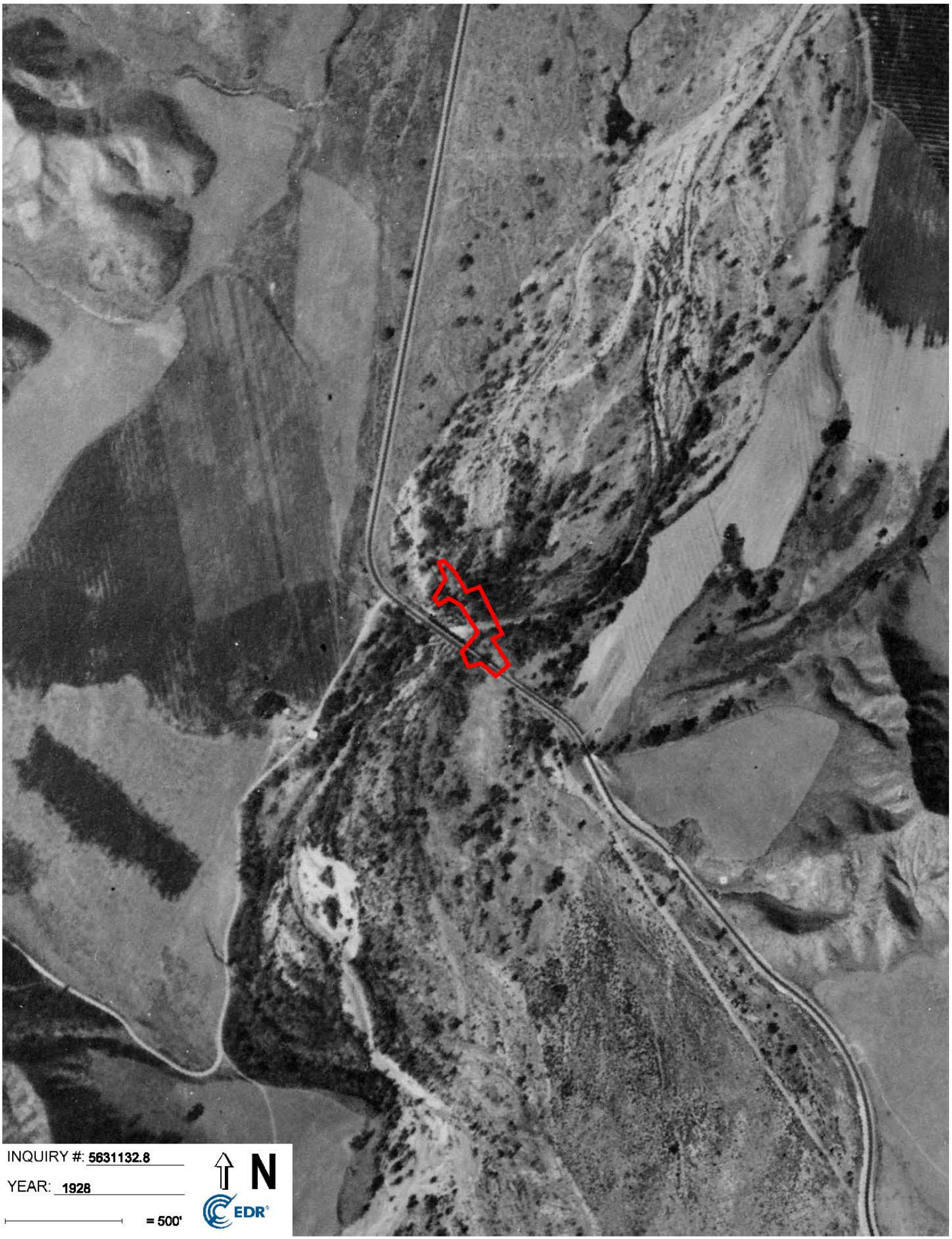

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EDR


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YEAR: 1969
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EDR


INQUIRY #: 5631132.8
YEAR: 1952
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 1947
= 500'
N
EDR


INQUIRY #: 5631132.8
YEAR: 1940
= 500'
N
EDR



INQUIRY #: 5631132.8

YEAR: 1928

= 500'

N

EDR

ATTACHMENT C

Historic Topographic Maps

LADWP Old Road Bridge
The Old Road and Castaic Creek
Castaic, CA 91384

Inquiry Number: 5631132.4
April 24, 2019

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

04/24/19

Site Name:	Client Name:
LADWP Old Road Bridge	Dudek & Associates
The Old Road and Castaic Cre	605 Third Street
Castaic, CA 91384	Encinitas, CA 92024
EDR Inquiry # 5631132.4	Contact: Audrey Herschberger

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Dudek & Associates were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: 11125.02 EP 18-005

Coordinates:

Latitude:	34.451368 34° 27' 5" North
Longitude:	-118.615176 -118° 36' 55" West
UTM Zone:	Zone 11 North
UTM X Meters:	351628.42
UTM Y Meters:	3813387.86
Elevation:	1027.30' above sea level

Maps Provided:

2012	1943
1995	1941
1991	1940
1988	1929, 1931
1974	1903
1969	
1952	
1947	

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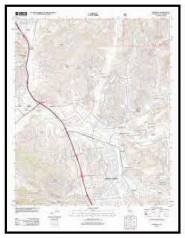
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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Newhall

7.5-minute, 24000



Val Verde

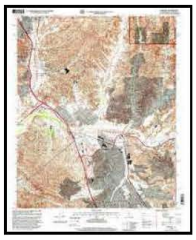
7.5-minute, 24000

1995 Source Sheets



Val Verde

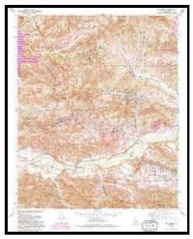
7.5-minute, 24000
Aerial Photo Revised 1994



Newhall

7.5-minute, 24000
Aerial Photo Revised 1995

1991 Source Sheets



Val Verde

7.5-minute, 24000
Aerial Photo Revised 1991

1988 Source Sheets



Newhall

7.5-minute, 24000
Aerial Photo Revised 1985



Val Verde

7.5-minute, 24000
Aerial Photo Revised 1985

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1974 Source Sheets



Val Verde

7.5-minute, 24000
Aerial Photo Revised 1969

1969 Source Sheets



Val Verde

7.5-minute, 24000
Aerial Photo Revised 1969



Newhall

7.5-minute, 24000
Aerial Photo Revised 1969

1952 Source Sheets



Val Verde

7.5-minute, 24000
Aerial Photo Revised 1947



Newhall

7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



SANTA SUSANA

15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

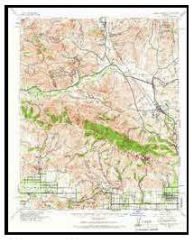
1943 Source Sheets



Santa Susana

15-minute, 62500
Aerial Photo Revised 1938

1941 Source Sheets



Santa Susana

15-minute, 62500
Aerial Photo Revised 1938

1940 Source Sheets



Castaic

7.5-minute, 24000

1929, 1931 Source Sheets



Saugus

7.5-minute, 24000



Castaic

7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1903 Source Sheets

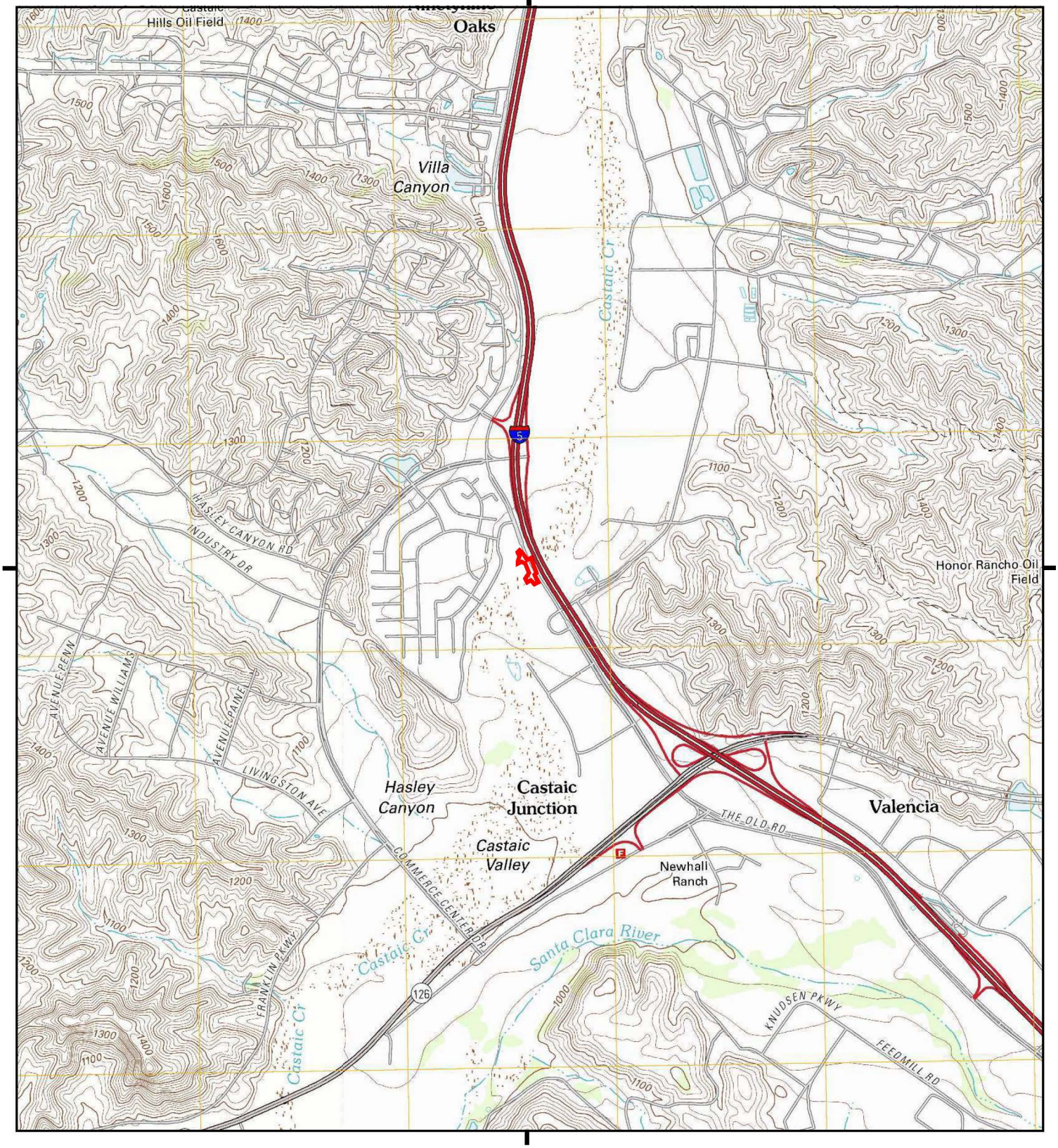


Santa Susana

15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

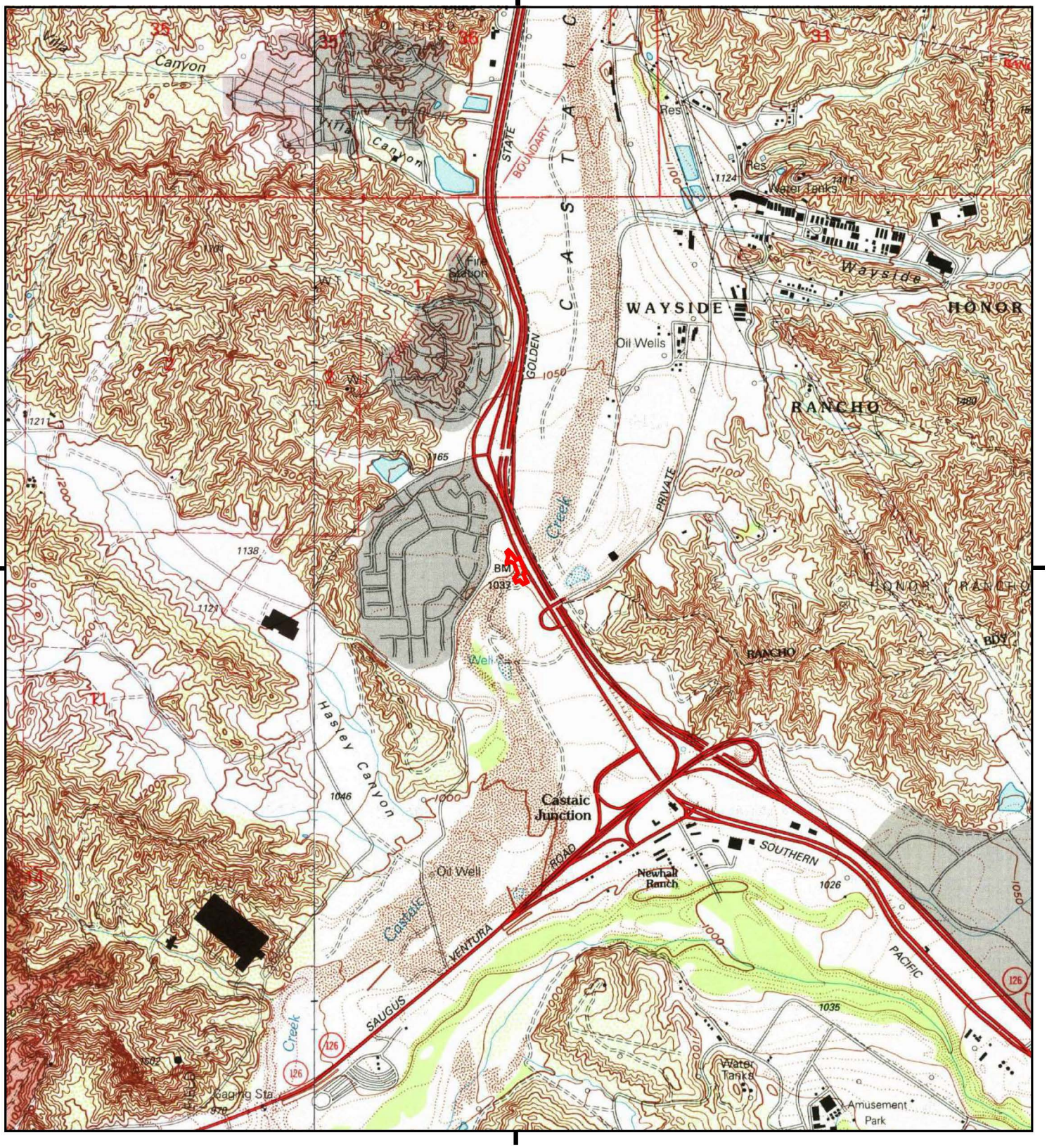
TP, Newhall, 2012, 7.5-minute
W, Val Verde, 2012, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N

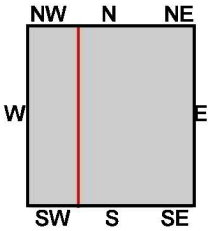
Historical Topo Map

1995



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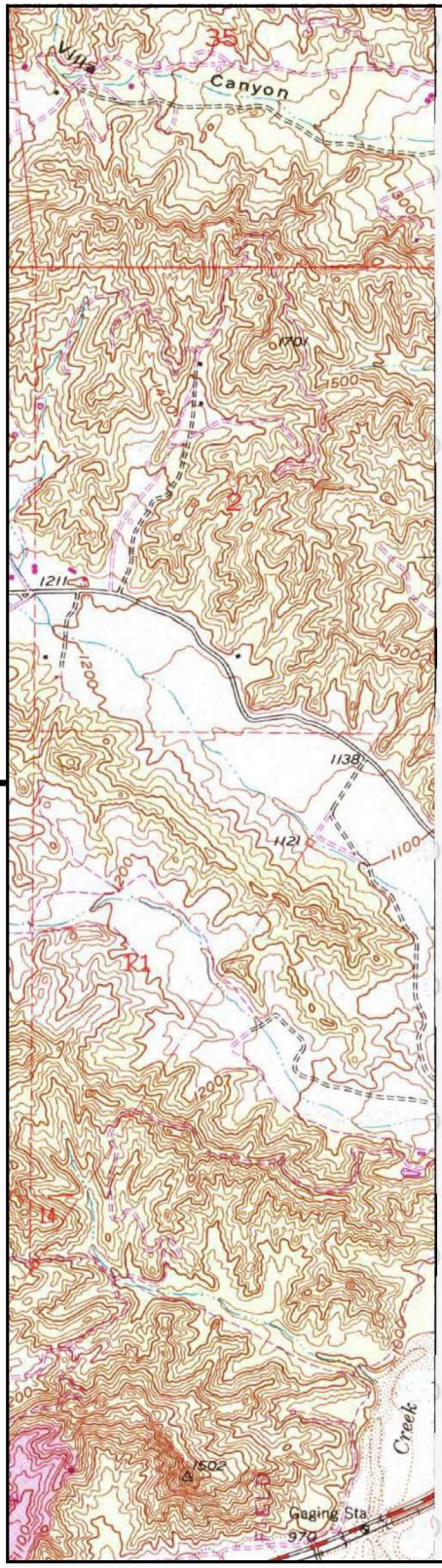
0 Miles 0.25 0.5 1 1.5



TP, Newhall, 1995, 7.5-minute
W, Val Verde, 1995, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

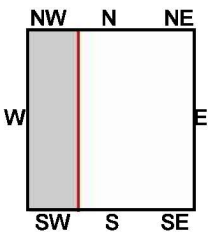
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UNMAPPED

This report includes information from the following map sheet(s).

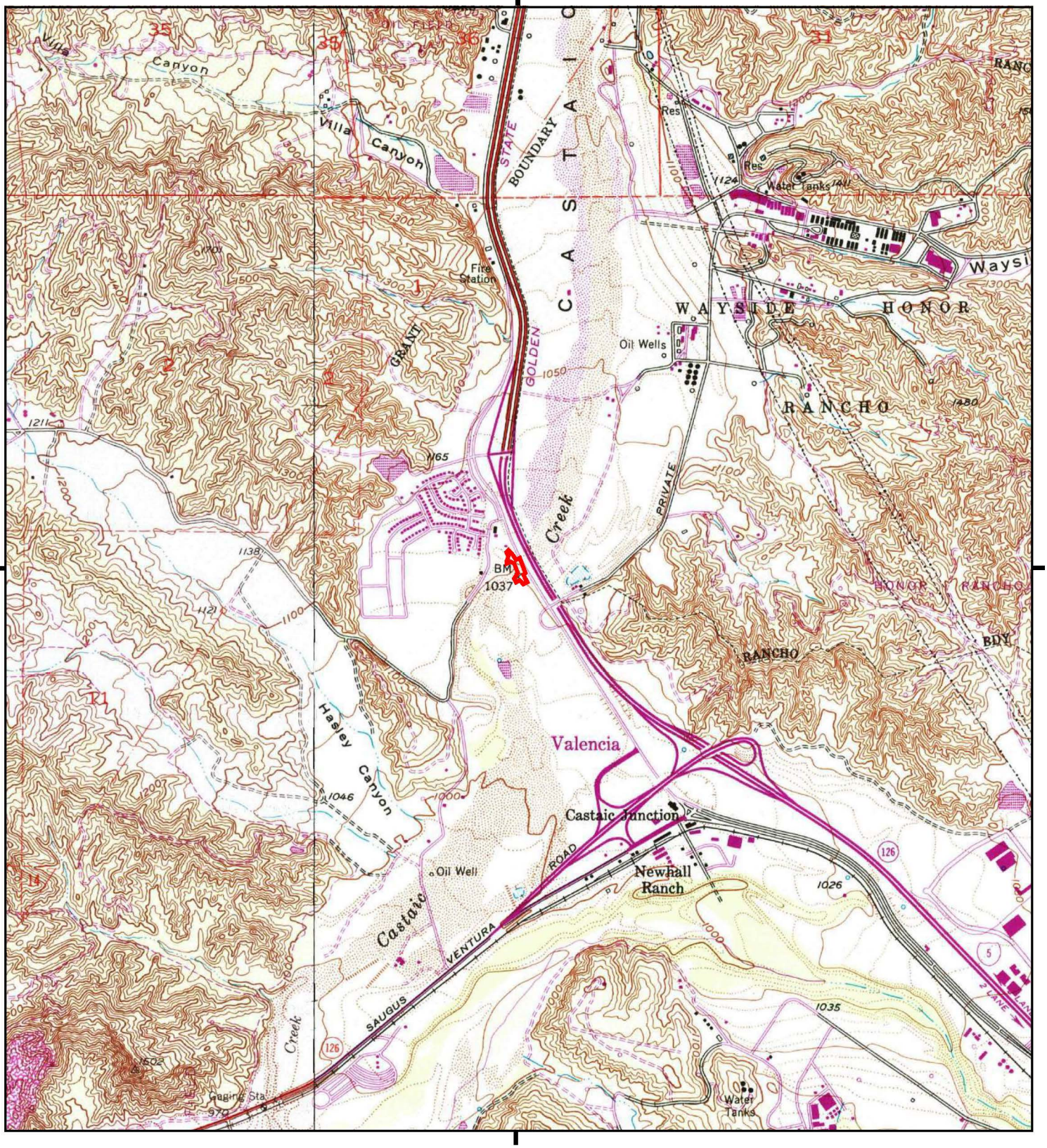
0 Miles 0.25 0.5 1 1.5



W, Val Verde, 1991, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

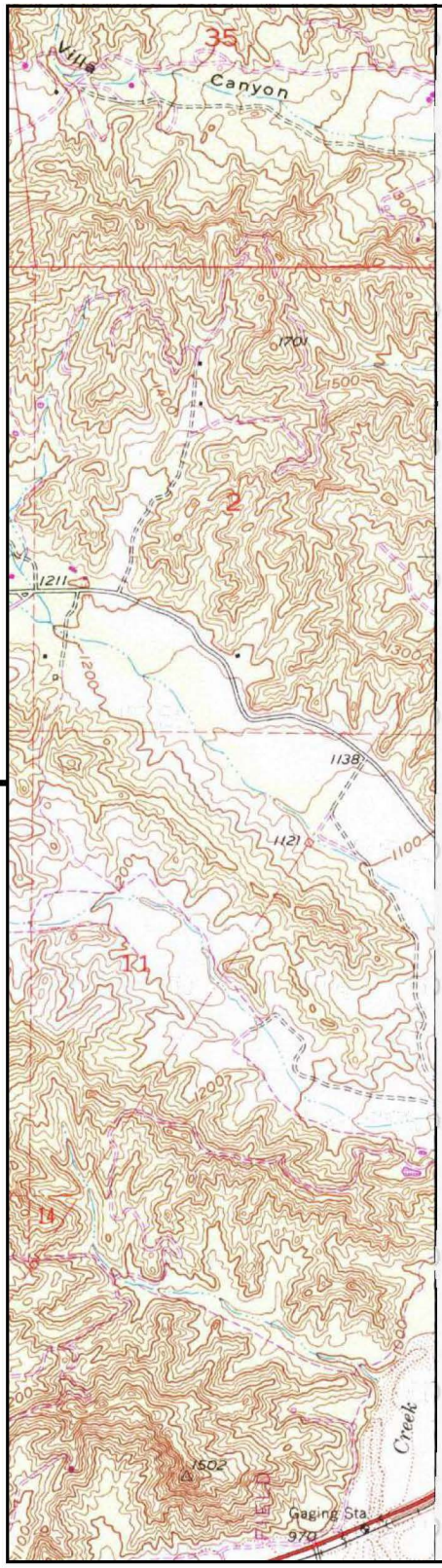
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newhall, 1988, 7.5-minute
W, Val Verde, 1988, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



UNMAPPED

This report includes information from the following map sheet(s).

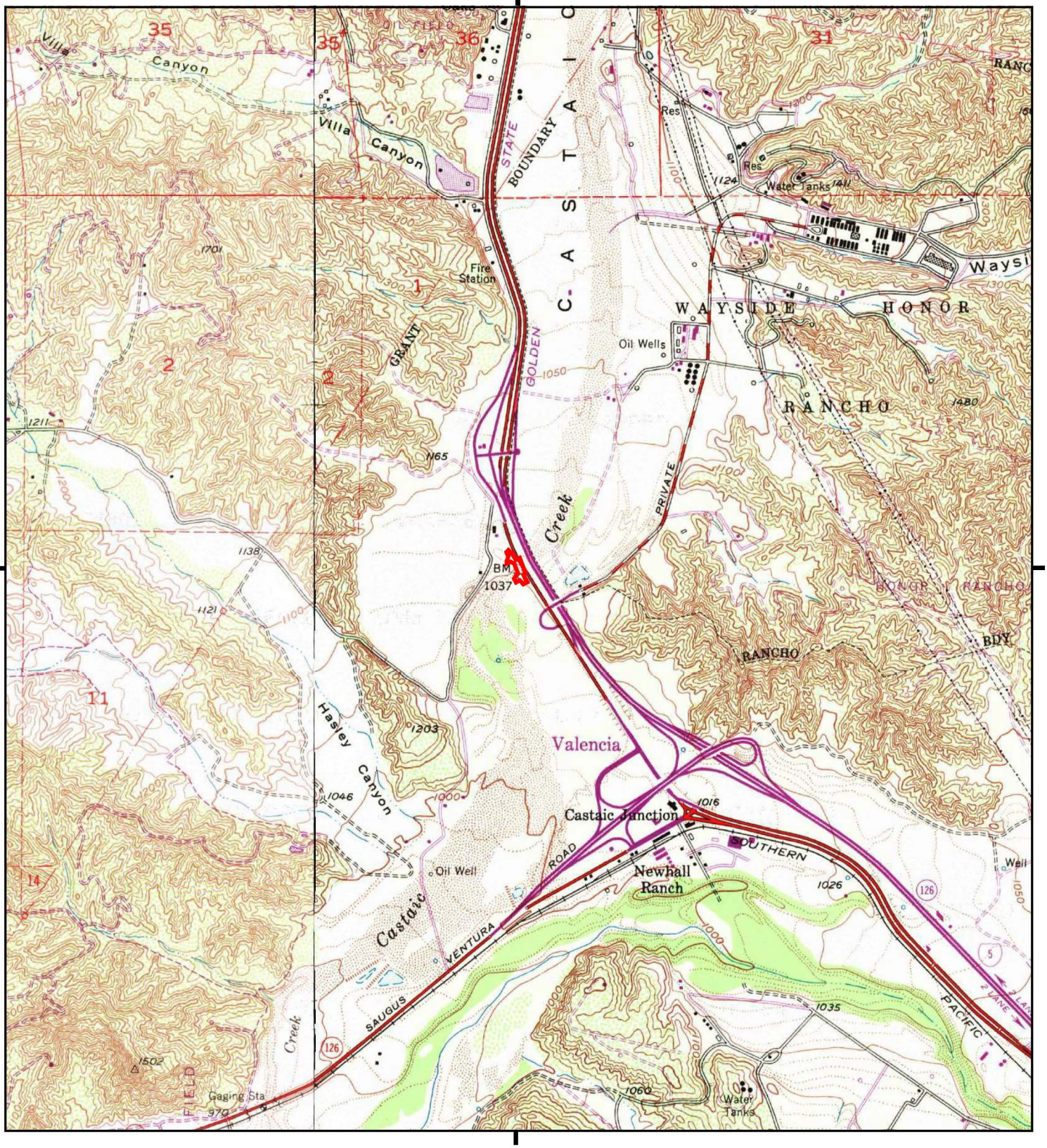
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

W, Val Verde, 1974, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

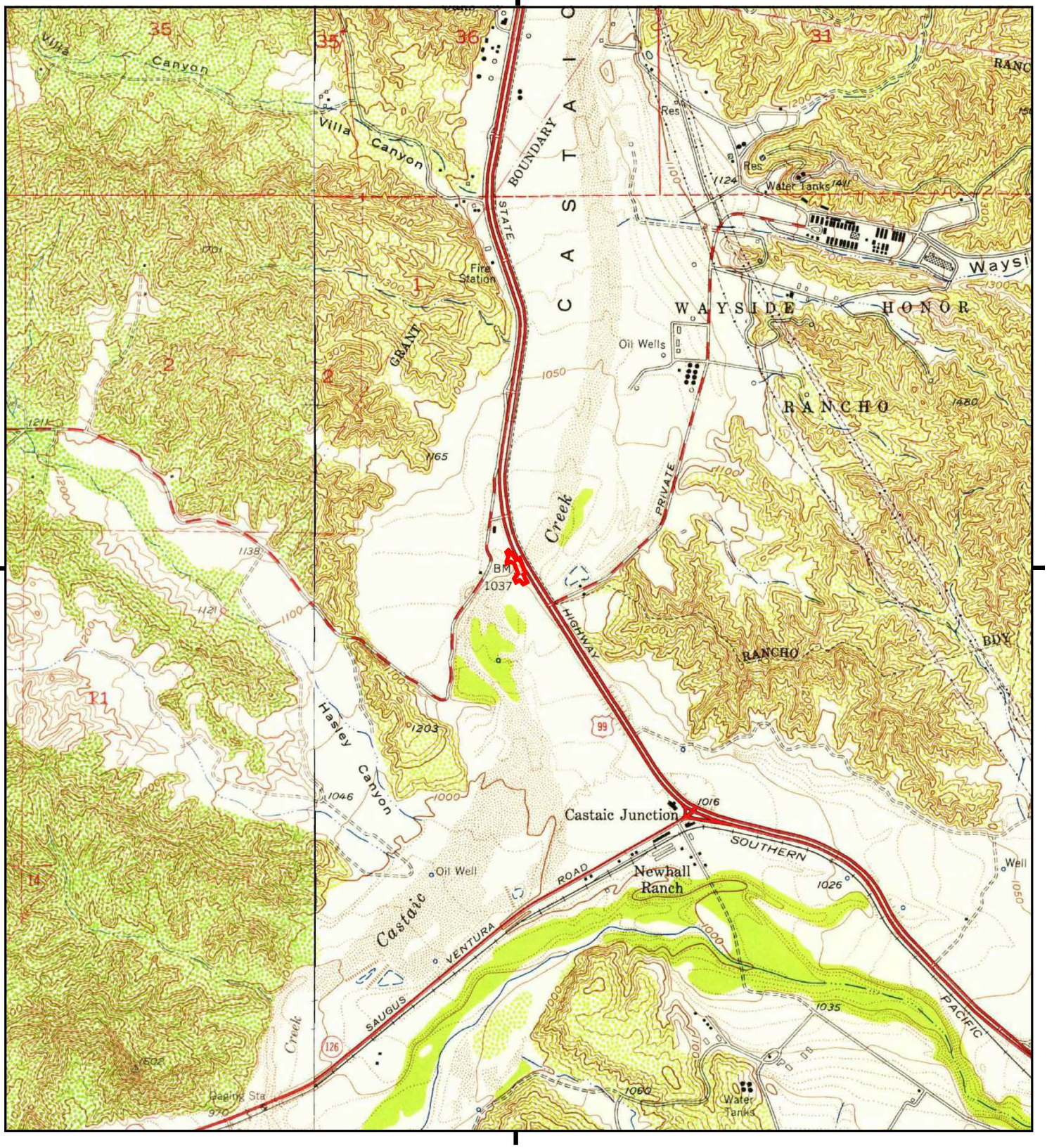
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newhall, 1969, 7.5-minute
W, Val Verde, 1969, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

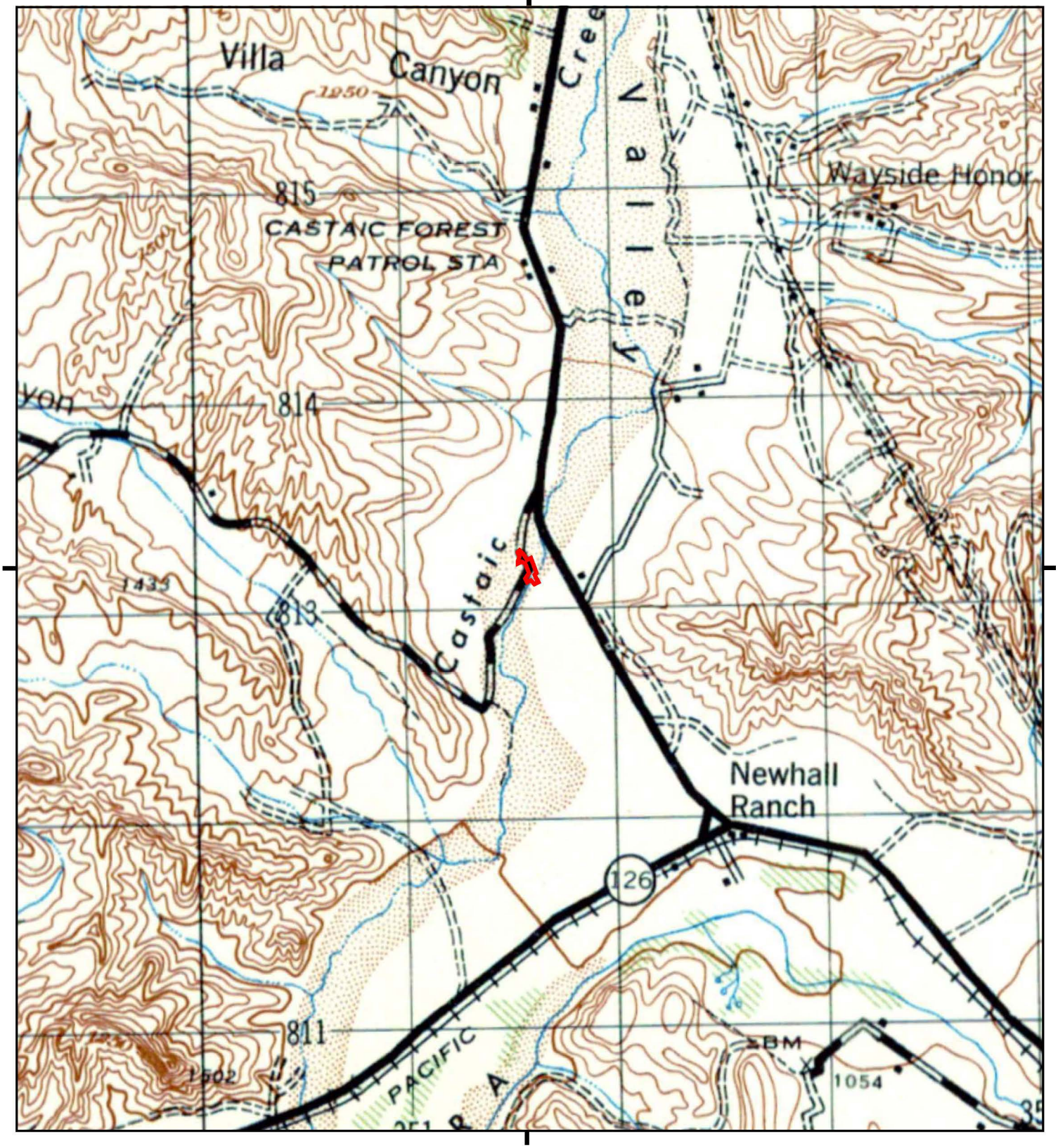
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Newhall, 1952, 7.5-minute
W, Val Verde, 1952, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

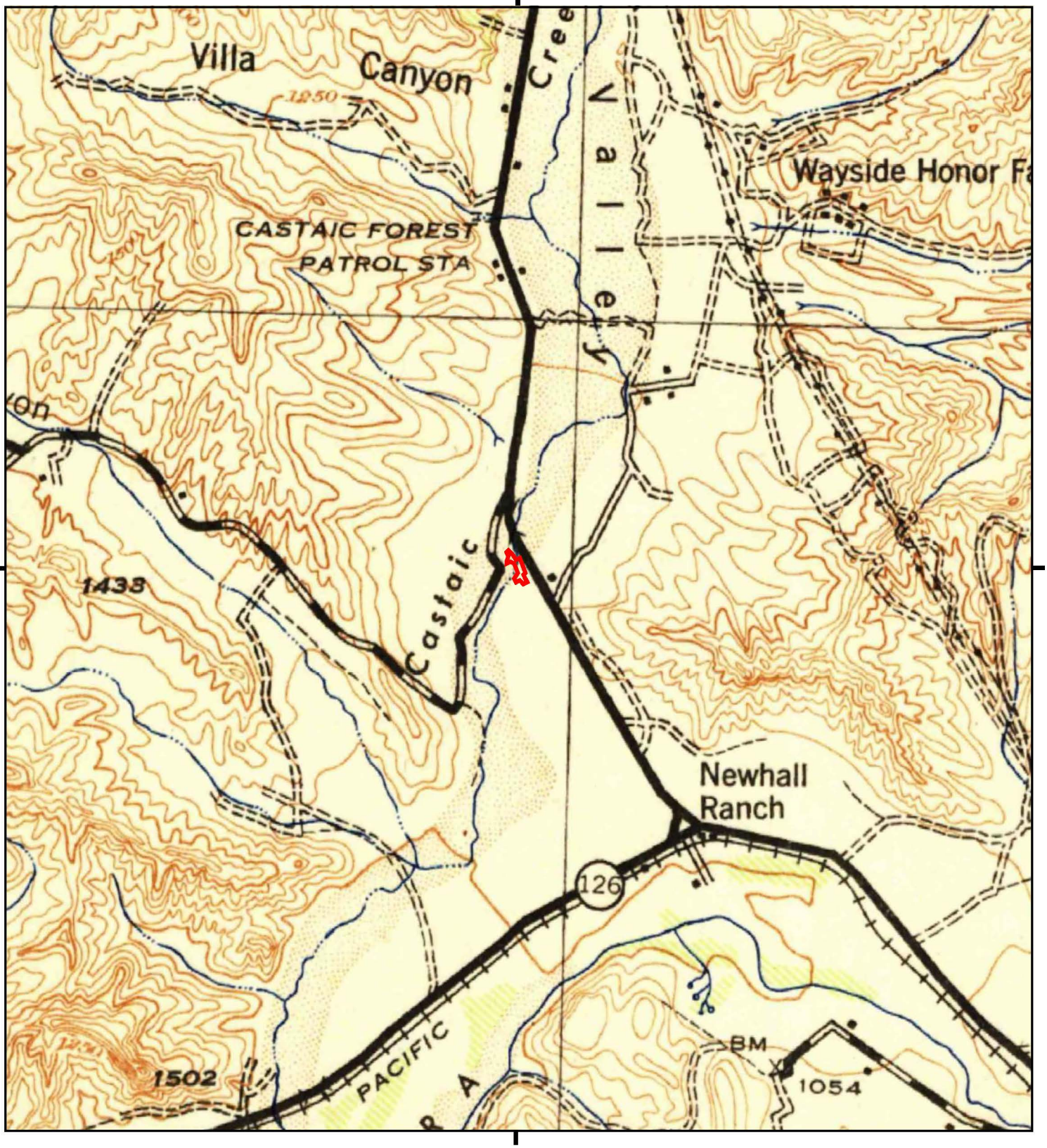
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, SANTA SUSANA, 1947, 15-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

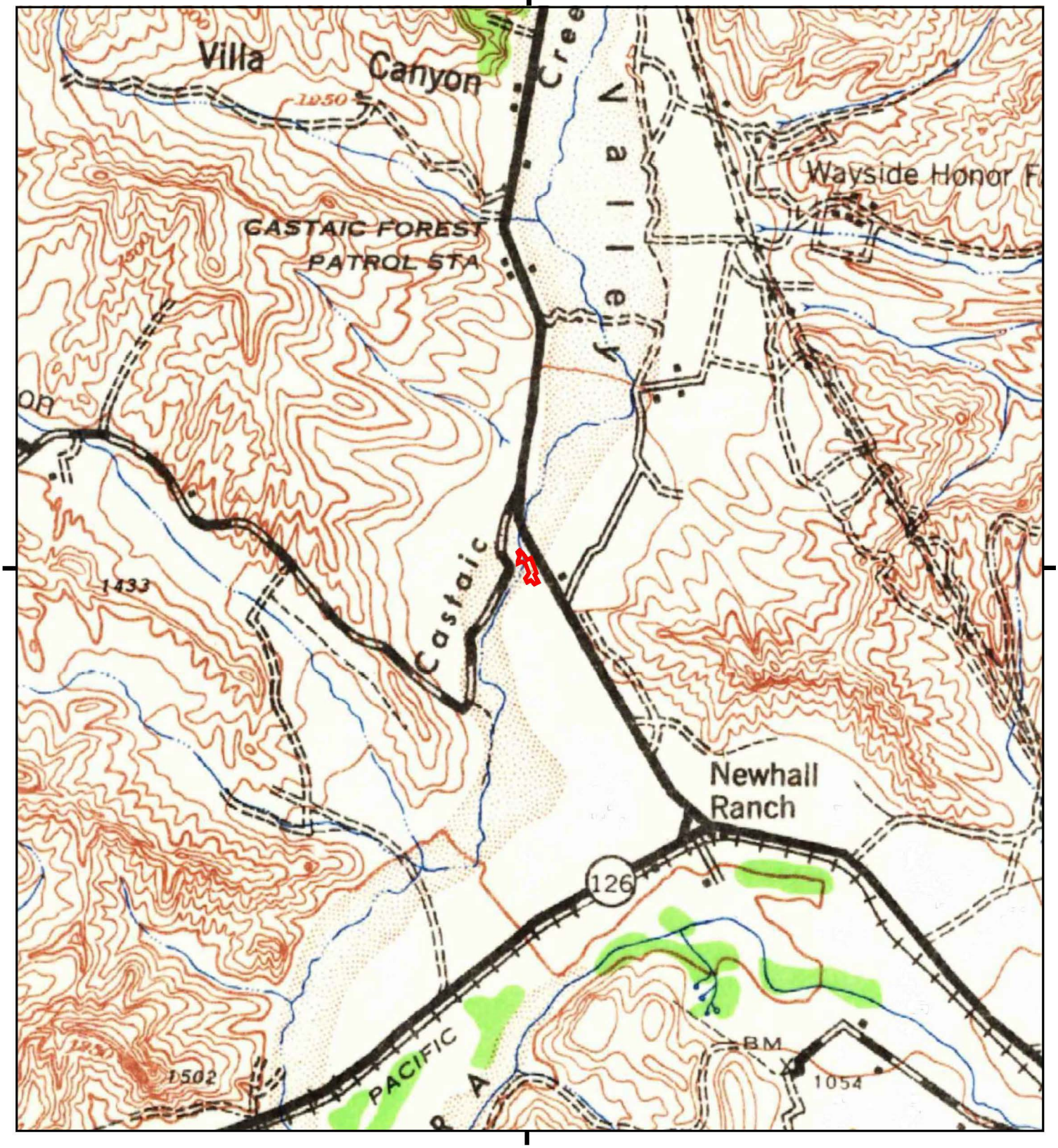
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Susana, 1943, 15-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

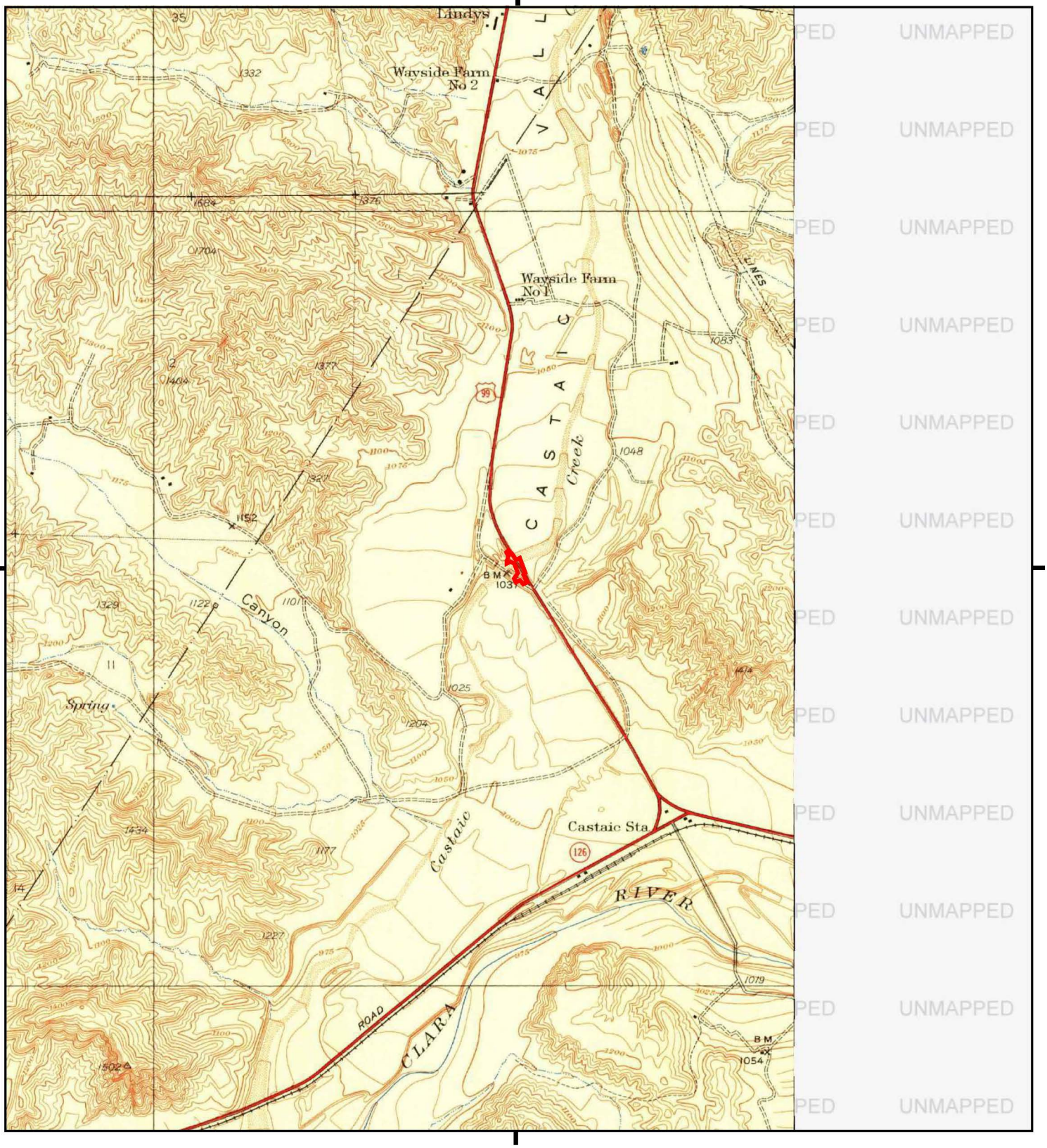
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Susana, 1941, 15-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

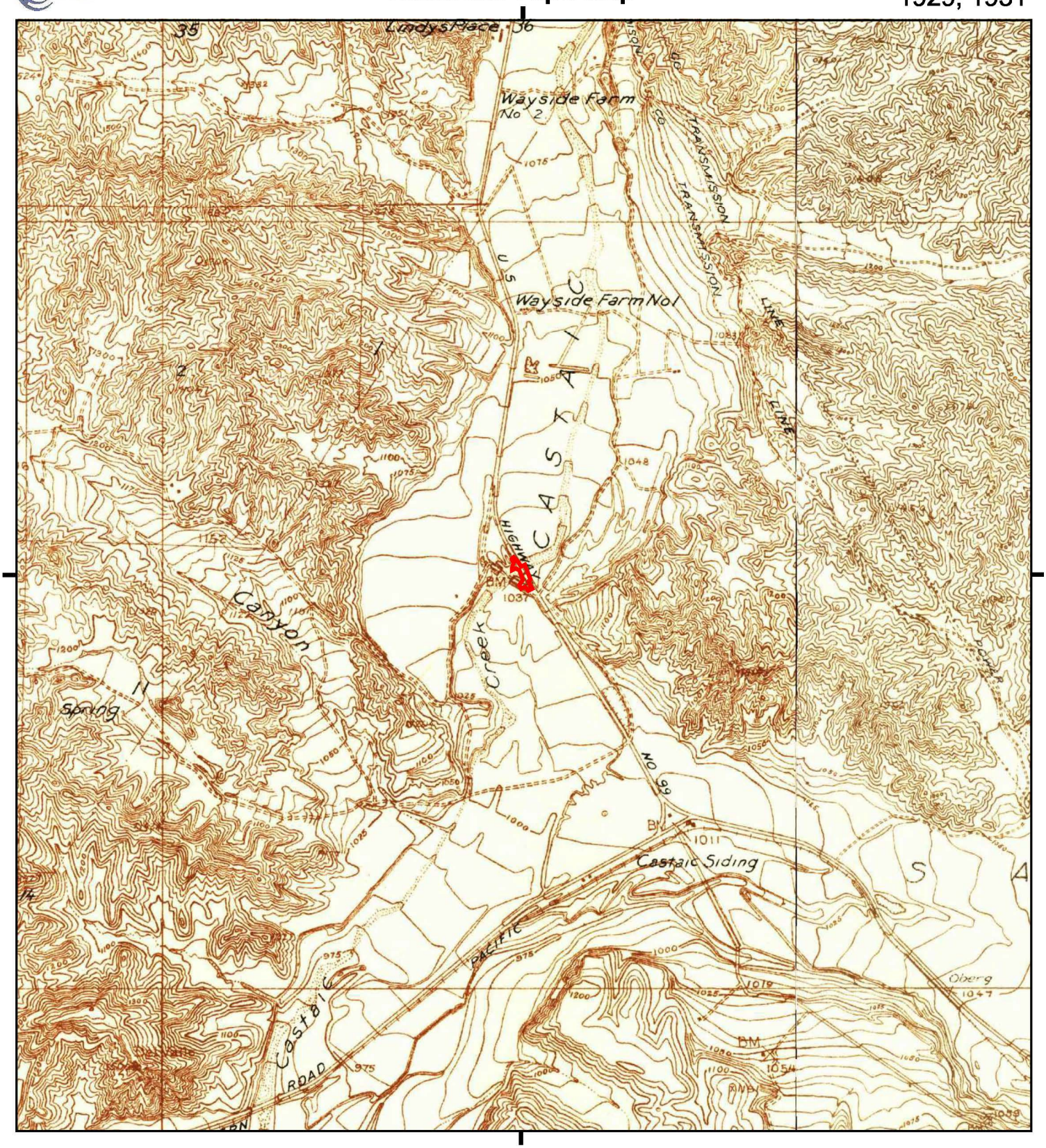
TP, Castaic, 1940, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

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Historical Topo Map

1929, 1931



This report includes information from the following map sheet(s).

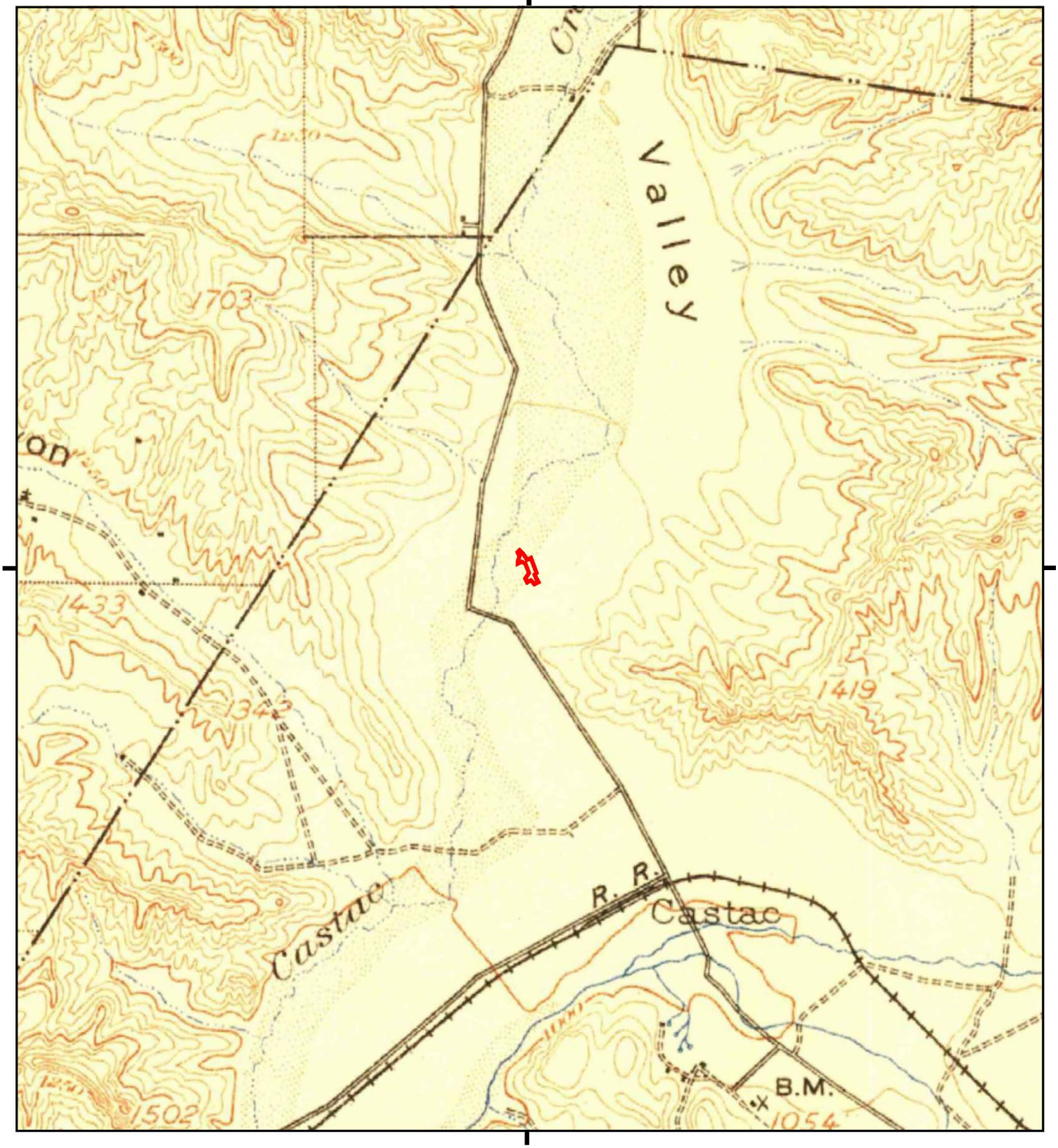
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Castaic, 1931, 7.5-minute
E, Saugus, 1929, 7.5-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Santa Susana, 1903, 15-minute

SITE NAME: LADWP Old Road Bridge
ADDRESS: The Old Road and Castaic Creek
Castaic, CA 91384
CLIENT: Dudek & Associates

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Appendix E

Noise Modeling Data

APPENDIX E-1

Field Noise Data Sheets

DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: OLD ROAD OVER CASTAIC — PROJECT #: 11175.03
SITE ID:
SITE ADDRESS: — OBSERVER(S): PETE VITAL
START DATE: 6/4/14 — END DATE: 6/4/14
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 67 F — HUMIDITY: 67 % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: MPH — DIR. N NE S SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) — OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO SLM-3 — TYPE 1 2 — SERIAL #: 140317004
CALIBRATOR: BRUA CAL 114 — SERIAL #: 480151
CALIBRATION CHECK — PRE-TEST: dBA SPL — POST-TEST: dBA SPL — WINDSCRN: YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

ST-1

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
7-8	9:51	10:06	65.2	79.2	57.3				

COMMENTS: READING TAKEN AT EACH PROJECT LINE OF 27614 BUCKSKIN DR. (RESIDENTIAL), ALONG LIVE OAK ROAD; PRIMARY NOISE SOURCE IS TRAFFIC ON I-5 FREEWAY; LIGHT TRAFFIC ON LIVE OAK ROAD (LESS THAN 15 CARS)

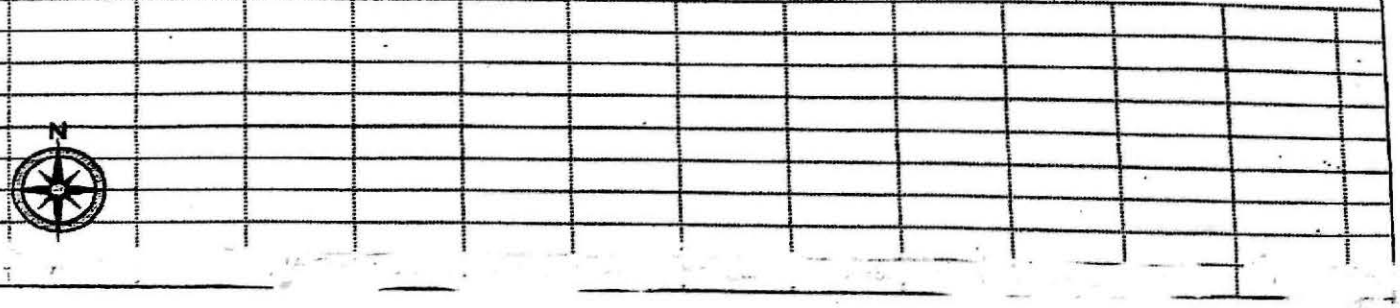
SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO RDWY C/L OR (EOP): 6' FROM LIVE OAK RD. EOP
TRAFFIC COUNT DURATION: — MIN — SPEED — MIN — SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB	IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE	COUNT 2 (OR RDWY 2) NB/EB	SB/WB	NB/EB	SB/WB
AUTOS									
MED TRKS									
HVY TRKS									
BUSES									
MOTRCLS									

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): (AIRCRAFT) RUSTLING LEAVES DIST. BARKING DOGS (BIRDS) DIST. INDUSTRIAL
(DIST. KIDS PLAYING) DIST. CONVRSTNS / YELLING (DIST. TRAFFIC (LIST RDWYS BELOW)) (DIST GARDENERS/LANDSCAPING NOISE)
OTHER: TRAFFIC ON I-5 FWY - PRIMARY NOISE SOURCE

DESCRIPTION / SKETCH
TERRAIN: HARD SOFT (MIXED) FLAT OTHER:
PHOTOS: 4718; 4719; 4720; 4721; 4722; 4724; 4725
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT: OLD ROAD OVER CYSTAIC — PROJECT #: 11125.03
SITE ID:
SITE ADDRESS:
OBSERVER(S): PETE VITAL
START DATE: 6/4/19 — END DATE: 6/4/19
START TIME: — END TIME:

METEOROLOGICAL CONDITIONS
TEMP: 71 F — HUMIDITY: 59 % R.H. — WIND: (CALM) LIGHT MODERATE
WINDSPD: MPH — DIR. N NE E SE S SW W NW — VARIABLE STEADY GUSTY
SKY: (SUNNY) (CLEAR) — OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT: PICCOLO SLM-3 — TYPE 1 2 — SERIAL # 1403170004
CALIBRATOR: BSWA CA 114 — SERIAL # 480151
CALIBRATION CHECK — PRE-TEST: dBA SPL — POST-TEST: dBA SPL — WINDSCRN: YES

SETTINGS: A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST-2) 9-10	10:19	10:34	63.8	71.3	57.5				

COMMENTS: READING TAKEN IN PLAY YARD OF 29421 THE OLD ROAD (SCHOOL). PRIMANT NOISE SOURCE IS TRAFFIC ON I-5 FREEWAY; SECONDARY IS CHILDREN PLAYING IN ADJACENT SCHOOL YARD.

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE: (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT — DIST. TO ~~RDWY C/L OR EOP~~: 17' TO EDGE OF SCHOOL BLDG.
TRAFFIC COUNT DURATION: — MIN — SPEED — MIN — SPEED

COUNT 1 (OR RDWY 1)	DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
	AUTOS				
	MED TRKS				
	HVY TRKS				
	BUSES				
	MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE

COUNT 2 (OR RDWY 2)	NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
(DIST. KIDS PLAYING) DIST. CONVRSTNS / YELLING (DIST. TRAFFIC / LIST RDWYS BELOW) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: TRAFFIC ON I-5 FWY - PRIMANT NOISE SOURCE

DESCRIPTION / SKETCH
TERRAIN HARD SOFT (MIXED) FLAT OTHER:
PHOTOS 4727; 4728; 4729; 4730; 4731; 4732; 4733
OTHER COMMENTS / SKETCH



DUDEK

FIELD NOISE MEASUREMENT DATA

PROJECT OLD ROAD OVER CANYAL PROJECT # 11125.03
SITE ID
SITE ADDRESS OBSERVER(S) PETE VITAR
START DATE 6/4/14 END DATE 6/4/14
START TIME END TIME

METEOROLOGICAL CONDITIONS
TEMP 71 F HUMIDITY 59 % R.H. WIND (CALM) LIGHT MODERATE
WINDSPD MPH DIR. N NE E SE S SW W NW VARIABLE STEADY GUSTY
SKY (SUNNY) (CLEAR) OVRCAST PRTLY CLDY FOG RAIN

ACOUSTIC MEASUREMENTS
MEAS. INSTRUMENT PIC 0LO SLM-3 TYPE 1 2 SERIAL # 1403170014
CALIBRATOR B&K CA 114 SERIAL # 4201157
CALIBRATION CHECK PRE-TEST dBA SPL POST-TEST dBA SPL WINDSCRN YES

SETTINGS A-WTD (SLOW) FAST FRONTAL RANDOM ANSI OTHER:

REC. #	BEGIN	END	Leq	Lmax	Lmin	L90	L50	L10	OTHER (SPECIFY METRIC
(ST-3) 11-12	10:44	10:59	68.3	78.2	62.2				

COMMENTS
READING TAKEN IN FRONT OF 2945 THE OLD ROAD (CHURCH); PRIMARY NOISE SOURCE IS TRAFFIC ON I-5 FREEWAY; SECONDARY IS CARS MOVING IN PARKING LOT IN FRONT OF MEYER;

SOURCE INFO AND TRAFFIC COUNTS
PRIMARY NOISE SOURCE (TRAFFIC) AIRCRAFT RAIL INDUSTRIAL OTHER:
ROADWAY TYPE: ASPHALT DIST. TO RDWY C/L OR (EOP): APX 200' FROM THE OLD ROAD

TRAFFIC COUNT DURATION: — MIN SPEED

COUNT 1 (OR RDWY 1) DIRECTION	NB/EB	SB/WB	NB/EB	SB/WB
AUTOS				
MED TRKS				
HVY TRKS				
BUSES				
MOTRCLS				

IF COUNTING BOTH DIRECTIONS AS ONE, CHECK HERE —

COUNT 2 (OR RDWY 2) — MIN SPEED

NB/EB	SB/WB	NB/EB	SB/WB

SPEEDS ESTIMATED BY: RADAR / DRIVING THE PACE
POSTED SPEED LIMIT SIGNS SAY:

OTHER NOISE SOURCES (BACKGROUND): DIST. AIRCRAFT RUSTLING LEAVES DIST. BARKING DOGS BIRDS DIST. INDUSTRIAL
DIST. KIDS PLAYING DIST. CONVRSTNS / YELLING (DIST. TRAFFIC (LIST RDWYS BELOW)) DISTD GARDENERS/LANDSCAPING NOISE
OTHER: TRAFFIC ON I-5 FWY (PRIMARY NOISE SOURCE)

DESCRIPTION / SKETCH
TERRAIN (HARD) SOFT MIXED FLAT OTHER:
PHOTOS 4735; 4736; 4737; 4738; 4739; 4740; 4741
OTHER COMMENTS / SKETCH



APPENDIX E-2

Construction Noise Modeling
Input and Output

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 5/13/2019
Case Descri Clearing / Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Nearest Re	Residential	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	450	0
All Other Equipment > 5 HP	No	50	85		450	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Day Lmax	Leq	Noise Limits (dBA) Evening Lmax	Leq
Front End Loader	60	56	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.9	62.9	N/A	N/A	N/A	N/A
Total	65.9	63.7	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Child Care I	Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	230	0
All Other Equipment > 5 HP	No	50	85		250	0

Equipment	Calculated (dBA) *Lmax	Leq	Results Day Lmax	Leq	Noise Limits (dBA) Evening Lmax	Leq
Front End Loader	65.9	61.9	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	71	68	N/A	N/A	N/A	N/A
Total	71	69	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Church	Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Front End Loader	No	40		79.1	360	0
All Other Equipment > 5 HP	No	50	85		380	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Front End Loader	62	58	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	67.4	64.4	N/A	N/A	N/A	N/A
Total	67.4	65.3	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 5/13/2019
Case Descr Grading / Excavation

---- Receptor #1 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Nearest Re	Residential	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	450	0
Front End Loader	No	40		79.1	450	0
Front End Loader	No	40		79.1	480	0
Auger Drill Rig	No	20		84.4	500	0
All Other Equipment > 5 HP	No	50	85		480	0

	Calculated (dBA)		Results Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	58.5	54.5	N/A	N/A	N/A	N/A

Front End Loader	60	56	N/A	N/A	N/A	N/A
Front End Loader	59.5	55.5	N/A	N/A	N/A	N/A
Auger Drill Rig	64.4	57.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	65.4	62.3	N/A	N/A	N/A	N/A
Total	65.4	65.2	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

	Baselines (dBA)		
Description Land Use	Daytime	Evening	Night
Child Care | Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	230	0
Front End Loader	No	40		79.1	250	0
Front End Loader	No	40		79.1	250	0
Auger Drill Rig	No	20		84.4	280	0
All Other Equipment > 5 HP	No	50	85		240	0

	Results					
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	64.3	60.3	N/A	N/A	N/A	N/A
Front End Loader	65.1	61.2	N/A	N/A	N/A	N/A
Front End Loader	65.1	61.2	N/A	N/A	N/A	N/A
Auger Drill Rig	69.4	62.4	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	71.4	68.4	N/A	N/A	N/A	N/A
Total	71.4	70.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

	Baselines (dBA)		
Description Land Use	Daytime	Evening	Night
Church Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	360	0
Front End Loader	No	40		79.1	380	0
Front End Loader	No	40		79.1	380	0
Auger Drill Rig	No	20		84.4	400	0
All Other Equipment > 5 HP	No	50	85		400	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	60.4	56.4	N/A	N/A	N/A	N/A
Front End Loader	61.5	57.5	N/A	N/A	N/A	N/A
Front End Loader	61.5	57.5	N/A	N/A	N/A	N/A
Auger Drill Rig	66.3	59.3	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	66.9	63.9	N/A	N/A	N/A	N/A
Total	66.9	66.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 5/13/2019
Case Descr Building Construction

---- Receptor #1 ----

	Baselines (dBA)		
Description Land Use	Daytime	Evening	Night
Nearest Re Residential	65	60	60

			Equipment			
			Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Tractor	No	40	84		450	0
Front End Loader	No	40		79.1	450	0
Concrete Mixer Truck	No	40		78.8	480	0
Pumps	No	50		80.9	500	0

			Results			
	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor	64.9	60.9	N/A	N/A	N/A	N/A
Front End Loader	60	56	N/A	N/A	N/A	N/A
Concrete Mixer Truck	59.2	55.2	N/A	N/A	N/A	N/A
Pumps	60.9	57.9	N/A	N/A	N/A	N/A
Total	64.9	64.1	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

	Baselines (dBA)		
Description Land Use	Daytime	Evening	Night
Child Care I Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84		230	0
Front End Loader	No	40		79.1	250	0
Concrete Mixer Truck	No	40		78.8	250	0
Pumps	No	50		80.9	280	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor	64.3	60.3	N/A	N/A	N/A	N/A
Front End Loader	65.1	61.2	N/A	N/A	N/A	N/A
Concrete Mixer Truck	65.1	61.2	N/A	N/A	N/A	N/A
Pumps	69.4	62.4	N/A	N/A	N/A	N/A
Total	71.4	70.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #3 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Church	Commercial	65	60	60

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Tractor	No	40	84		360	0
Front End Loader	No	40		79.1	380	0
Concrete Mixer Truck	No	40		78.8	380	0
Pumps	No	50		80.9	400	0

Results

	Calculated (dBA)		Noise Limits (dBA)			
			Day		Evening	
Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq
Tractor	60.4	56.4	N/A	N/A	N/A	N/A
Front End Loader	61.5	57.5	N/A	N/A	N/A	N/A
Concrete Mixer Truck	61.5	57.5	N/A	N/A	N/A	N/A
Pumps	66.3	59.3	N/A	N/A	N/A	N/A
Total	66.9	66.9	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Appendix F

Traffic Counts

Prepared by National Data & Surveying Services

CLASSIFICATION

The Old Rd N/O Biscailuz Dr

Day: Thursday
Date: 4/11/2019

City: Castaic
Project #: CA19_5198_001

Summary

Time	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	Total
00:00 AM	0	21	0	0	0	0	0	0	0	0	0	0	0	21
00:15	0	18	3	0	0	0	0	0	0	0	0	0	0	21
00:30	0	16	1	0	0	0	0	0	2	0	0	0	0	19
00:45	0	9	0	1	0	0	0	1	0	0	0	0	0	11
01:00	0	14	1	0	0	0	0	0	0	0	0	0	0	15
01:15	0	6	0	0	0	0	0	0	0	0	0	0	0	6
01:30	0	5	2	0	0	0	0	0	0	0	0	0	0	7
01:45	0	6	0	0	0	0	0	0	0	0	0	0	0	6
02:00	0	6	1	0	1	0	0	0	1	0	0	0	0	9
02:15	0	3	0	0	0	0	0	0	0	0	0	0	0	3
02:30	0	10	1	1	0	0	0	0	0	0	0	0	0	12
02:45	0	6	1	0	2	0	0	0	2	0	0	0	0	11
03:00	0	9	3	0	0	0	0	1	0	0	0	0	0	13
03:15	0	4	2	0	0	0	0	0	0	0	0	0	0	6
03:30	0	11	1	0	0	0	0	0	0	0	0	0	0	12
03:45	0	10	3	0	0	0	0	0	1	0	0	0	0	14
04:00	0	16	4	0	1	0	0	0	0	0	0	0	0	21
04:15	0	24	8	0	0	0	0	0	0	0	0	0	0	32
04:30	0	41	10	0	0	0	0	0	0	0	0	0	0	51
04:45	0	47	8	0	1	0	0	0	0	0	0	0	0	56
05:00	0	43	12	0	2	0	0	0	0	0	0	0	0	57
05:15	0	65	16	0	1	0	0	0	0	0	0	0	0	82
05:30	0	70	20	1	2	0	0	0	0	0	0	0	0	93
05:45	0	98	16	0	1	0	0	0	0	0	0	0	0	115
06:00	0	73	18	0	1	0	0	0	0	0	0	0	0	92
06:15	0	73	15	0	2	0	0	0	1	0	0	0	0	91
06:30	0	91	15	1	4	0	0	0	0	0	0	0	0	111
06:45	0	88	13	0	6	0	0	0	0	0	0	0	0	107
07:00	0	74	14	0	1	0	0	0	0	0	0	0	0	89
07:15	0	91	18	0	0	0	0	0	0	0	0	0	0	109
07:30	1	134	23	0	4	0	0	1	1	0	0	0	0	164
07:45	0	155	21	0	1	0	0	0	0	0	0	0	0	177
08:00	0	118	19	0	0	0	0	1	0	0	0	0	0	138
08:15	1	116	15	1	2	0	0	1	1	0	0	0	0	137
08:30	1	108	13	2	2	0	0	1	0	0	0	0	0	127
08:45	0	76	16	1	4	0	0	0	1	0	0	0	0	98
09:00	0	76	11	0	0	0	0	0	0	0	0	0	0	87
09:15	1	66	11	0	3	0	0	0	0	0	0	0	0	81
09:30	1	70	13	1	3	0	0	0	0	0	0	0	0	88
09:45	0	81	9	1	3	0	0	0	0	0	0	0	0	94
10:00	0	66	10	1	0	0	0	0	0	0	0	0	0	77
10:15	0	83	15	0	1	0	0	0	0	0	0	0	0	99
10:30	0	56	16	2	2	0	0	0	0	0	0	0	0	76
10:45	0	58	16	1	2	0	0	0	0	0	0	0	0	77
11:00	0	96	11	1	4	0	0	0	0	0	0	0	0	112
11:15	0	68	16	1	3	0	0	0	2	0	0	0	0	90
11:30	1	93	14	0	1	0	0	1	0	0	0	0	0	110
11:45	1	94	13	0	3	0	0	0	0	0	0	0	0	111
12:00 PM	0	103	16	1	2	0	0	1	0	0	0	0	0	123
12:15	0	126	23	1	5	0	0	1	0	0	0	0	0	156
12:30	1	117	19	1	1	0	0	0	0	0	0	0	0	139
12:45	0	124	22	1	3	0	0	0	0	0	0	0	0	150
13:00	1	99	18	1	4	0	0	1	0	0	0	0	0	124
13:15	0	107	13	0	2	0	0	0	0	0	0	0	0	122
13:30	1	91	14	1	1	0	0	0	0	0	0	0	0	108
13:45	0	111	27	0	2	0	0	0	1	0	0	0	0	141
14:00	0	116	18	1	4	0	0	0	1	0	0	0	0	140
14:15	1	102	23	1	2	0	0	0	0	0	0	0	0	129
14:30	0	114	15	1	1	0	0	1	0	0	0	0	0	132
14:45	1	114	7	1	4	0	0	0	0	0	0	0	0	127
15:00	0	118	22	1	0	0	0	0	0	0	0	0	0	141
15:15	0	136	23	0	3	0	0	0	0	0	0	0	0	162
15:30	1	105	21	3	2	0	0	1	0	0	0	0	0	133
15:45	0	118	8	0	2	0	0	0	0	0	0	0	0	128
16:00	0	100	13	0	1	0	0	2	1	0	0	0	0	117
16:15	0	107	14	3	2	0	0	0	0	0	0	0	0	126
16:30	1	133	17	0	0	0	0	1	0	0	0	0	0	152
16:45	0	107	13	0	3	0	0	0	0	0	0	0	0	123
17:00	1	126	17	0	0	0	0	0	1	0	0	0	0	145
17:15	1	101	18	0	0	0	0	0	0	0	0	0	0	120
17:30	0	107	15	0	1	0	0	0	0	0	0	0	0	123
17:45	0	103	12	0	1	0	0	0	0	0	0	0	0	116
18:00	0	98	7	0	1	0	0	0	0	0	0	0	0	106
18:15	0	84	8	0	0	0	0	0	0	0	0	0	0	92
18:30	0	102	10	1	1	0	0	0	0	0	0	0	0	114
18:45	0	88	11	0	3	0	0	0	0	0	0	0	0	102
19:00	0	83	4	0	1	0	0	0	0	0	0	0	0	88
19:15	0	81	3	0	0	0	0	0	0	0	0	0	0	84
19:30	0	70	5	1	1	0	0	0	0	0	0	0	0	77
19:45	0	59	6	0	0	0	0	0	0	0	0	0	0	65
20:00	0	51	0	0	0	0	0	0	0	0	0	0	0	51
20:15	0	50	2	0	1	0	0	0	0	0	0	0	0	53
20:30	0	55	2	0	0	0	0	0	0	0	0	0	0	57
20:45	0	57	6	1	0	0	0	0	0	0	0	0	0	64
21:00	0	70	5	0	0	0	0	0	0	0	0	0	0	75
21:15	0	52	4	0	0	0	0	0	0	0	0	0	0	56
21:30	0	44	7	0	1	0	0	0	0	0	0	0	0	52
21:45	0	53	5	0	0	0	0	0	0	0	0	0	0	58
22:00	0	47	5	0	0	0	0	0	0	0	0	0	0	52
22:15	0	41	8	1	2	0	0	0	0	0	0	0	0	52
22:30	0	39	7	0	2	0	0	0	0	0	0	0	0	48
22:45	0	36	3	1	0	0	0	0	0	0	0	0	0	40
23:00	0	33	3	2	0	0	0	0	0	0	0	0	0	38
23:15	0	23	2	1	0	0	0	0	0	0	0	0	0	26
23:30	0	18	2	0	0	0	0	0	0	0	0	0	0	20
23:45	0	21	1	0	0	0	0	0	0	0	0	0	0	22
Totals	**18**	**6702**	**992**	**41**	**122**			**15**	**16**					**7904**
% of Totals	**0%**	**85%**	**13%**	**1%**	**2%**			**0%**	**0%**					**100%**

AM Volumes	7	2662	468	16	63	0	0	7	12	0	0	0	0	3235
% AM	0%	34%	6%	0%	1%			0%	0%					41%
AM Peak Hour	07:30	07:30	07:15	10:30	06:00			07:30	02:00					07:30
Volume	2	523	81	5	13			3	3					616
PM Volumes	9	4040	524	25	59	0	0	8	4	0	0	0	0	4669
% PM	0%	51%	7%	0%	1%			0%	0%					59%
PM Peak Hour	16:30	14:30	13:45	15:30	12:15			15:15	13:15					12:15
Volume	3	482	89	6	13			3	2					569

Directional Peak Periods	AM 7-9			NOON 12-2			PM 4-6			Off Peak Volumes		
All Classes	Volume	↔	%	Volume	↔	%	Volume	↔	%	Volume	↔	%
	1039	↔	13%	1063	↔	13%	1022	↔	13%	4780	↔	60%

Classification Definitions

1 Motorcycles	4 Buses	7 >=4-Axle Single Units	10 >=6-Axle Single Trailers	13 >=7-Axle Multi-Trailers
2 Passenger Cars	5 2-Axle, 6-Tire Single Units	8 <=4-Axle Single Trailers	11 <=5-Axle Multi-Trailers	
3 2-Axle, 4-Tire Single Units	6 3-Axle Single Units	9 5-Axle Single Trailers	12 6-Axle Multi-Trailers	

DAILY TOTALS	NB	SB	EB	WB	To
	3,843	4,061	0	0	7,9

AM Period	NB		SB		EB	WB	TOTAL		PM Period	NB		SB		EB	WB	TO
00:00	11		10		0	0	21		12:00	65		58		0	0	123
00:15	14		7		0	0	21		12:15	89		67		0	0	156
00:30	17		2		0	0	19		12:30	81		58		0	0	139
00:45	9	51	2	21	0	0	11	72	12:45	72	307	78	261	0	0	150
01:00	9		6		0	0	15		13:00	61		63		0	0	124
01:15	4		2		0	0	6		13:15	55		67		0	0	122
01:30	4		3		0	0	7		13:30	57		51		0	0	108
01:45	4	21	2	13	0	0	6	34	13:45	85	258	56	237	0	0	141
02:00	4		5		0	0	9		14:00	82		58		0	0	140
02:15	2		1		0	0	3		14:15	66		63		0	0	129
02:30	4		8		0	0	12		14:30	61		71		0	0	132
02:45	0	10	11	25	0	0	11	35	14:45	74	283	53	245	0	0	127
03:00	3		10		0	0	13		15:00	88		53		0	0	141
03:15	2		4		0	0	6		15:15	102		60		0	0	162
03:30	3		9		0	0	12		15:30	77		56		0	0	133
03:45	4	12	10	33	0	0	14	45	15:45	72	339	56	225	0	0	128
04:00	3		18		0	0	21		16:00	80		37		0	0	117
04:15	6		26		0	0	32		16:15	82		44		0	0	126
04:30	18		33		0	0	51		16:30	84		68		0	0	152
04:45	14	41	42	119	0	0	56	160	16:45	77	323	46	195	0	0	123
05:00	9		48		0	0	57		17:00	91		54		0	0	145
05:15	12		70		0	0	82		17:15	78		42		0	0	120
05:30	19		74		0	0	93		17:30	80		43		0	0	123
05:45	21	61	94	286	0	0	115	347	17:45	71	320	45	184	0	0	116
06:00	18		74		0	0	92		18:00	70		36		0	0	106
06:15	12		79		0	0	91		18:15	60		32		0	0	92
06:30	21		90		0	0	111		18:30	80		34		0	0	114
06:45	24	75	83	326	0	0	107	401	18:45	65	275	37	139	0	0	102
07:00	18		71		0	0	89		19:00	53		35		0	0	88
07:15	24		85		0	0	109		19:15	51		33		0	0	84
07:30	29		135		0	0	164		19:30	46		31		0	0	77
07:45	24	95	153	444	0	0	177	539	19:45	47	197	18	117	0	0	65
08:00	29		109		0	0	138		20:00	36		15		0	0	51
08:15	36		101		0	0	137		20:15	39		14		0	0	53
08:30	34		93		0	0	127		20:30	45		12		0	0	57
08:45	29	128	69	372	0	0	98	500	20:45	41	161	23	64	0	0	64
09:00	26		61		0	0	87		21:00	57		18		0	0	75
09:15	23		58		0	0	81		21:15	34		22		0	0	56
09:30	37		51		0	0	88		21:30	37		15		0	0	52
09:45	34	120	60	230	0	0	94	350	21:45	41	169	17	72	0	0	58
10:00	31		46		0	0	77		22:00	42		10		0	0	52
10:15	52		47		0	0	99		22:15	40		12		0	0	52
10:30	38		38		0	0	76		22:30	33		15		0	0	48
10:45	41	162	36	167	0	0	77	329	22:45	29	144	11	48	0	0	40
11:00	56		56		0	0	112		23:00	26		12		0	0	38
11:15	46		44		0	0	90		23:15	20		6		0	0	26
11:30	55		55		0	0	110		23:30	13		7		0	0	20
11:45	60	217	51	206	0	0	111	423	23:45	15	74	7	32	0	0	22
TOTALS		993		2242				3235	TOTALS		2850		1819			
SPLIT %		30.7%		69.3%				40.9%	SPLIT %		61.0%		39.0%			

DAILY TOTALS	NB	SB	EB	WB	To
	3,843	4,061	0	0	7,9

AM Peak Hour	11:45	07:30			07:30	PM Peak Hour	14:45	12:15			
AM Pk Volume	295	498			616	PM Pk Volume	341	266			
Pk Hr Factor	0.829	0.814			0.870	Pk Hr Factor	0.836	0.853			
7 - 9 Volume	223	816	0	0	1039	4 - 6 Volume	643	379	0	0	
7 - 9 Peak Hour	08:00	07:30			07:30	4 - 6 Peak Hour	16:15	16:15			
7 - 9 Pk Volume	128	498	0	0	616	4 - 6 Pk Volume	334	212	0	0	
Pk Hr Factor	0.889	0.814	0.000	0.000	0.870	Pk Hr Factor	0.918	0.779	0.000	0.000	

National Data & Surveying Services

Intersection Turning Movement Count

Location: The Old Rd & N/O Bs
City: Castaic
Project ID: 19-05199-001
Date: 4/11/2019

Peds

NS/EW Streets:	The Old Rd		The Old Rd		
AM	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
12:00 AM	0	0	0	0	0
12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	0	0	0
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	1	1
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
9:00 AM	0	0	0	0	0
9:15 AM	0	0	0	0	0
9:30 AM	0	0	0	0	0
9:45 AM	0	0	0	0	0
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	0	1	1
APPROACH %'s :			0.00%	100.00%	
PEAK HR :					TOTAL
PEAK HR VOL :	0	0	0	0	0
PEAK HR FACTOR :					

NOON	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
10:00 AM	0	0	0	0	0
10:15 AM	0	0	0	0	0
10:30 AM	0	0	0	0	0
10:45 AM	0	0	0	0	0
11:00 AM	0	0	0	0	0
11:15 AM	0	0	0	0	0
11:30 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0
12:00 PM	0	0	0	0	0
12:15 PM	0	0	0	0	0
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	2	0	2
1:15 PM	0	0	0	1	1
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	0	0	2	1	3
APPROACH %'s :			66.67%	33.33%	
PEAK HR :					TOTAL
PEAK HR VOL :	0	0	0	0	0
PEAK HR FACTOR :					

PM	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
2:00 PM	0	0	0	0	0
2:15 PM	0	0	0	0	0
2:30 PM	0	0	0	0	0
2:45 PM	0	0	0	0	0
3:00 PM	1	0	0	0	1
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	1	0	1
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM	0	0	0	0	0
7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	0	0
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	1	0	1	1	3
APPROACH %'s :	100.00%	0.00%	50.00%	50.00%	
PEAK HR :					TOTAL
PEAK HR VOL :	0	0	0	0	0
PEAK HR FACTOR :					

National Data & Surveying Services

Intersection Turning Movement Count

Location: The Old Rd & N/O I
City: Castalc
Project ID: 19-05199-001
Date: 4/11/2019

Bikes

NS/EW Streets:	The Old Rd		The Old Rd		
AM	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
12:00 AM	0	0	0	0	0
12:15 AM	0	0	0	0	0
12:30 AM	0	0	0	0	0
12:45 AM	0	0	0	0	0
1:00 AM	0	0	0	0	0
1:15 AM	0	0	0	0	0
1:30 AM	0	0	0	0	0
1:45 AM	0	0	0	0	0
2:00 AM	0	0	0	0	0
2:15 AM	0	0	0	0	0
2:30 AM	0	0	0	0	0
2:45 AM	0	0	0	0	0
3:00 AM	0	0	0	0	0
3:15 AM	0	0	0	0	0
3:30 AM	0	0	0	0	0
3:45 AM	0	0	0	0	0
4:00 AM	0	0	0	0	0
4:15 AM	0	0	0	0	0
4:30 AM	0	0	0	0	0
4:45 AM	0	0	0	0	0
5:00 AM	0	0	0	0	0
5:15 AM	0	0	0	0	0
5:30 AM	0	0	0	0	0
5:45 AM	0	0	0	0	0
6:00 AM	0	0	0	0	0
6:15 AM	1	0	0	0	1
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	1	0	0	1	2
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	1	1
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	1	1
8:45 AM	0	0	0	1	1
9:00 AM	0	0	0	0	0
9:15 AM	0	0	1	0	1
9:30 AM	0	0	0	0	0
9:45 AM	5	0	0	0	5
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	7	0	1	4	12
APPROACH %'s :	100.00%	0.00%	20.00%	80.00%	
PEAK HR :					TOTAL
PEAK HR VOL :	0	0	0	0	0
PEAK HR FACTOR :					

NOON	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
10:00 AM	2	0	0	0	2
10:15 AM	0	0	0	0	0
10:30 AM	0	0	0	1	1
10:45 AM	0	0	0	0	0
11:00 AM	0	0	0	0	0
11:15 AM	0	0	0	0	0
11:30 AM	0	0	0	0	0
11:45 AM	0	0	0	0	0
12:00 PM	0	0	0	2	2
12:15 PM	1	0	0	0	1
12:30 PM	0	0	0	0	0
12:45 PM	0	0	0	0	0
1:00 PM	0	0	0	0	0
1:15 PM	0	0	0	1	1
1:30 PM	0	0	0	0	0
1:45 PM	0	0	0	0	0
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	3	0	0	4	7
APPROACH %'s :	100.00%	0.00%	0.00%	100.00%	
PEAK HR :					TOTAL
PEAK HR VOL :	2	0	0	1	3
PEAK HR FACTOR :	0.250			0.250	0.375
	0.250		0.250		

PM	EAST LEG		WEST LEG		
	NB	SB	NB	SB	TOTAL
2:00 PM	0	0	0	0	0
2:15 PM	1	0	0	0	1
2:30 PM	0	0	0	0	0
2:45 PM	0	0	0	0	0
3:00 PM	0	0	0	0	0
3:15 PM	0	0	0	0	0
3:30 PM	0	0	0	0	0
3:45 PM	0	0	0	0	0
4:00 PM	0	1	0	0	1
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	1	0	0	0	1
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	1	1
7:00 PM	0	0	0	0	0
7:15 PM	0	0	0	0	0
7:30 PM	0	0	0	0	0
7:45 PM	0	0	0	0	0
8:00 PM	0	0	0	0	0
8:15 PM	0	0	0	0	0
8:30 PM	0	0	0	0	0
8:45 PM	0	0	0	0	0
9:00 PM	0	0	0	0	0
9:15 PM	0	0	0	0	0
9:30 PM	0	0	0	0	0
9:45 PM	0	0	0	0	0
10:00 PM	0	0	0	0	0
10:15 PM	0	0	0	0	0
10:30 PM	0	0	0	0	0
10:45 PM	0	0	0	0	0
11:00 PM	0	0	0	0	0
11:15 PM	0	0	0	0	0
11:30 PM	0	0	0	0	0
11:45 PM	0	0	0	1	1
	NB	SB	NB	SB	TOTAL
TOTAL VOLUMES :	2	1	0	2	5
APPROACH %'s :	66.67%	33.33%	0.00%	100.00%	
PEAK HR :					TOTAL
PEAK HR VOL :	1	0	0	0	1
PEAK HR FACTOR :	0.250				0.250
	0.250				