### PUBLIC REVIEW DRAFT INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

FOR THE

## CARPENTER ROAD/WHITMORE AVENUE INTERSECTION SIGNALIZATION PROJECT

Stanislaus County, CA

October 11, 2017

Prepared for:

Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358 209-525-4130

Prepared by:

BaseCamp Environmental, Inc. 115 S. School Street, Suite 14 Lodi, CA 95240 209-224-8213



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#### STANISLAUS COUNTY NOTICE OF INTENT TO ADOPT MITIGATED NEGATIVE DECLARATION AND NOTICE OF PUBLIC MEETING CARPENTER/WHITMORE INTERECTIONS

Notice is hereby given that Stanislaus County Department of Public Works has prepared an Initial Study (IS) of environmental effects and intends to adopt a Mitigated Negative Declaration (MND) addressing installation of a traffic signal at the Carpenter Road/Whitmore Avenue intersection west of Modesto. The intersection would be widened to accommodate existing and projected traffic and to provide lane transitions and shoulder area.

The IS/MND has analyzed the potential environmental effects of the project as required by the California Environmental Quality Act (CEQA) and the CEQA Guidelines. On the basis of this analysis, the IS/MND finds that the project would not involve any significant environmental effects, provided that the mitigation measures described in the IS/MND are implemented. The Stanislaus County Department of Public Works has agreed to implement the mitigation measures. There are no sites enumerated under Section 65962.5 of the Government Code located on or near the project site.

Copies of the IS/MND are available for public review at the front desk at the Stanislaus County, Department of Public Works located at 1716 Morgan Road, Modesto and the Stanislaus County Library reference desk located at 1500 "I" Street, Modesto. The IS/MND is also available online at <a href="http://www.stancounty.com/publicworks/projects.shtm">http://www.stancounty.com/publicworks/projects.shtm</a>. Stanislaus County will accept public and agency comments on the IS/MND during a 30-day review period that will begin on October 11, 2017 and end on November 9, 2017. Comments may be sent via email to Shoaib Ahrary at <a href="http://www.stancounty.com">ahrarys@stancounty.com</a> or by mail to the address below.

Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358 Attn: Shoaib Ahrary

Stanislaus County will hold a public meeting to consider adoption of the IS/MND in January 2018.

Stanislaus County, Department of Public Works

Shoaib Ahrary

Date: October 6, 2017

### **NEGATIVE DECLARATION**

### A. General Project Information

Project Title:	Carpenter Road/Whitmore Avenue Intersection
Lead Agency Name and Address:	Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358
Contact Person and Phone Number:	Shoaib Ahrary, P.E. (209) 525-4133
Project Location:	At intersection of Carpenter Road and Whitmore Avenue southwest of Modesto, Stanislaus County
Project Sponsor Name and Address:	Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358
General Plan Designation:	Not Applicable
Zoning:	Not Applicable
Description of Project:	The Carpenter Road/Whitmore Avenue intersection would have a traffic signal installed and would be widened to accommodate existing and projected traffic and to provide lane transitions and shoulder area. Each approach would provide a left-turn pocket and a through/right turn lane. Road widening on the northern approach of Carpenter Road would require widening or replacement of an existing bridge across a canal operated by the Turlock Irrigation District.
Surrounding Land Uses and Setting:	Surrounding land use is predominantly agricultural (orchards).
Other Public Agencies Whose Approval is Required:	Turlock Irrigation District (work in canal), California Department of Transportation (CMAQ NEPA compliance)

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#### B. Environmental Factors Potentially Affected

The environmental factors checked below may be significantly affected by this project, involving at least one impact that is a "Potentially Significant Impact" prior to mitigation. Mitigation measures that would avoid potential effects or reduce them to a less-than-significant level have been prescribed for each of these effects, as described in the checklist and narrative on the following pages, and in Table 1-1 at the end of Chapter 1.0.

	Aesthetics		Agriculture/Forestry Resources		Air Quality
$\checkmark$	Biological Resources	$\checkmark$	Cultural Resources		Geology/Soils
	Greenhouse Gas Emissions	$\checkmark$	Hazards/Hazardous Materials		Hydrology/Water Quality
	Land Use/Planning		Mineral Resources	$\checkmark$	Noise
	Population/Housing		Public Services		Recreation
$\checkmark$	Transportation/Traffic		Tribal Cultural Resources		Utilities/Service Systems
V	Mandatory Findings of Signifi	icano	be a second s		tr

#### C. Lead Agency Determination

On the basis of this initial evaluation:

- □ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.
- $\sqrt{1}$  I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project and/or mitigation measures that would reduce potential effects to a less than significant level have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared. All applicable mitigation measures are shown in the Summary Table (Table 1-1) at the end of Chapter 1.0.
- □ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.
- □ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

STANISLAUS COUNTY **DEPARTMENT OF PUBLIC WORKS** 

Shoaib Ahrary, P.E., Associate Civil Engineer

10/6/2017

Date

## 1.0 INTRODUCTION

#### 1.1 Project Brief

This document is an Initial Study/Mitigated Negative Declaration (IS/MND) for the Carpenter Road/Whitmore Avenue Intersection Signalization Project (project). The project site is located southwest of the City of Modesto in central Stanislaus County, California (Figures 1-1 through 1-4). The IS/MND has been prepared in compliance with the requirements of the California Environmental Quality Act (CEQA). For the purposes of this CEQA analysis, Stanislaus County (County) is the Lead Agency for the project.

The project proposes to install a traffic signal at the intersection of Carpenter Road and Whitmore Avenue. The intersection would be widened to accommodate existing and projected traffic and to provide lane transitions and shoulder area. Each approach would provide a left-turn pocket and a through/right turn lane. Widening and required transitions would extend from the intersection center approximately 1,200 feet in all directions. The improved roadway sections would be restriped and signed in accordance with County and State standards.

To accommodate lane transitions on the southbound Carpenter Road approach to the intersection, the project would replace an existing bridge across a canal operated by the Turlock Irrigation District (TID) with a box culvert. The project would also require grading of the existing undeveloped County right-of-way. Existing pavement areas may be removed and replaced or rehabilitated. Road construction would involve excavation to establish subgrades for roadway reconstruction, road widening, and sign and signal structure foundations.

The completed project would require approximately 72,400 square feet of additional right-of-way, and temporary construction easements may be required for planned staging areas. The project would require removal of existing roadside vegetation within the existing right-of-way, and some orchard trees would require removal in the acquired right-of-way. Some existing utility poles with attached overhead utility lines would require relocation, along with possibly an existing natural gas pipeline.

#### 1.2 Purpose of Initial Study

CEQA requires that public agencies document and consider the potential environmental effects of the agency's actions that meet CEQA's definition of a project. Briefly summarized, a "project" is an action that has the potential to result in direct or indirect physical changes in the environment. A project includes the agency's direct activities as well as activities that involve public agency approvals or funding. Guidelines for an agency's implementation of CEQA are found in the CEQA Guidelines (California Code of Regulations, Title 14, Chapter 3).

Provided that a project is not exempt from CEQA, the first step in the agency's consideration of its potential environmental effects is the preparation of an Initial Study. The purpose of an Initial Study is to determine whether the project would involve "significant" environmental effects as defined by CEQA and to describe feasible mitigation measures that would avoid significant effects or reduce them to a level that is less than significant. If the Initial Study does not identify significant effects of the

project to a level that is less than significant, then the agency would prepare a Negative Declaration or a Mitigated Negative Declaration, respectively. If this is not the case – that is, if the project would involve significant effects that cannot be readily mitigated – then the agency must prepare an Environmental Impact Report (EIR). The agency may also decide to proceed directly with the preparation of an EIR without preparation of an Initial Study.

The proposed project is a "project" as defined by CEQA and is not exempt from CEQA consideration. The County has determined that the project involves the potential for significant environmental effects and has required preparation of this Initial Study. The Initial Study describes the proposed project and its environmental setting; it discusses the potential environmental effects of the project and identifies feasible mitigation measures that would avoid the potentially significant environmental effects of the project or reduce them to a level that is less than significant. The Initial Study considers the project's potential for significant environmental effects in the following subject areas:

Aesthetics Agricultural Resources Air Quality **Biological Resources** Cultural Resources Geology and Soils Greenhouse Gases Hazards and Hazardous Materials Hydrology and Water Ouality Land Use and Planning Mineral Resources Noise Population and Housing **Public Services** Recreation Transportation/Traffic **Tribal Cultural Resources** Utilities and Service Systems Mandatory Findings of Significance

The Initial Study for this project concludes that the project would have significant environmental effects, but that all of these effects would be avoided or reduced to a level that is less than significant with recommended mitigation measures. As of the distribution of the IS/MND for public review, the applicant has accepted all of the recommended mitigation measures. As a result, the County has prepared a Mitigated Negative Declaration and notified the public of the County's intent to adopt the IS/MND. The time available for public comment on the IS/MND is shown in the Notice of Intent.

### 1.3 Project Background

Carpenter Road is a north-south road that begins at State Route 99 in Modesto and traverses western Modesto before extending into rural land in Stanislaus County. Whitmore Avenue is an east-west road in central Stanislaus County that passes mostly through rural areas but also runs through the cities of Ceres and Hughson. Both Carpenter Road and Whitmore Avenue are two-lane roads at their intersection, which is located in a predominantly agricultural area southwest of Modesto. The intersection accommodates local traffic as well as traffic entering and exiting Modesto. Existing traffic control at the intersection consists of all-way stop signs. There are no segregated turn pockets at any of the approaches to the intersection.

It is expected that traffic volumes at this intersection will increase in the future, which under existing conditions would lead to extended delays for traffic passing through the stop sign-controlled intersection. The lack of turn pockets at the intersection could lead to an increase in accidents as the volume of traffic at the intersection increases. The County has concluded that a traffic signal and turn pockets at the Carpenter Road/Whitmore Avenue intersection are warranted.

#### 1.4 Environmental Evaluation Checklist Terminology

The project's potential environmental effects are evaluated in the Environmental Evaluation Checklist shown in Chapter 3.0. The checklist includes a list of environmental considerations against which the project is evaluated. For each question, the County determines whether the project would involve: 1) a Potentially Significant Impact, 2) a Less Than Significant Impact, 3) a Less Than Significant Impact With Mitigation Incorporated, or 4) No Impact.

A <u>Potentially Significant Impact</u> occurs when there is substantial evidence that the project would involve a substantial adverse change to the physical environment, i.e., that the environmental effect may be significant, and mitigation measures have not been defined that would reduce the impact to a less than significant level. If there are one or more Potentially Significant Impact entries in the Initial Study, an EIR is required.

A <u>Less Than Significant Impact</u> occurs when the project would involve effects on a particular resource, but the project would not involve a substantial adverse change to the physical environment, and no mitigation measures are required.

An environmental effect that is <u>Less Than Significant With Mitigation Incorporated</u> is a Potentially Significant Impact that can be avoided or reduced to a level that is less than significant with the application of mitigation measures identified in the Initial Study.

A determination of <u>No Impact</u> is self-explanatory.

This IS/MND prescribes mitigation measures for the potentially significant environmental effects of the project. Mitigation measures that are not already established in law and practice are identified in this document.

#### 1.5 Summary of Environmental Effects and Mitigation Measures

Table 1-1, at the end of this chapter, is a summary of the environmental impacts of the proposed project and mitigation measures. The table summarizes the results of the Environmental Checklist Form and associated narrative discussion in Chapter 3.0. The potential environmental impacts are listed in the left-most column of this table. The level of significance of each impact is indicated in the second column. Mitigation measures proposed to avoid or minimize potentially significant impacts, if any, are shown in the third column, and the significance of the impact after the mitigation measures are applied is shown in the fourth column.





Figure 1-1 REGIONAL MAP



SOURCE: Google Maps





SOURCE: Brush Lake Quadrangle, 1986.

BaseCamp Environmental

Figure 1-3 USGS MAP



SOURCE: Google Maps



Figure 1-4 AERIAL PHOTO

	Significance Before Mitigation		Significance After Mitigation
2 1 AESTHETICS	Measures	Mitigation Measures	Measures
5.1 AE51 HE11C5			
a) Scenic Vistas	NI	None required	-
b) Scenic Routes and Resources	LS	None required	-
c) Visual Character and Quality	LS	None required	-
d) Light and Glare	LS	None required	-
3.2 AGRICULTURE AND FORESTRY RESOURCES			
a) Agricultural Land Conversion	LS	None required	-
b) Agricultural Zoning and Williamson Act	LS	None required	-
c, d) Forest Land Conversion and Zoning	NI	None required	-
e) Indirect Conversion of Farmland and Forest Land	NI	None required	-
3.3 AIR QUALITY			
a) Air Quality Plan Consistency	LS	None required	-
b) Violation of Air Quality Standards	LS	None required	-
c) Cumulative Emissions	LS	None required	-
d) Exposure of Sensitive Receptors	LS	None required	-
e) Odors	NI	None required	-

Potential Impact	Significance Before Mitigation Measures	Mitigation Measures	Significance After Mitigation Measures
3.4 BIOLOGICAL RESOURCES			
a) Special-Status Species	PS	BIO-1. If construction commences between March 1 and September 1, then pre-construction surveys for nesting Swainson's hawks shall be conducted within 0.25 miles of the project construction area by a qualified biologist. If active nests are found, then the biologist shall determine the need for exclusion zones or other temporal restrictions on construction, which shall be implemented if any are prescribed. The determination shall be made pursuant to criteria set forth by the California Department of Fish and Wildlife (CDFW) in its 1994 Staff Report Regarding Mitigation for Impacts to Swainson's Hawk ( <i>Buteo swainsoni</i> ) in the Central Valley of California. No further mitigation shall be implemented if no active Swainson's hawk nests are found, and no mitigation need be implemented if construction activities occur between September 1 and March 1.	LS
b) Riparian and Other Sensitive Habitats	NI	None required	-
c) Wetlands	LS	None required	-
d) Fish and Wildlife Movement	PS	BIO-2. If vegetation removal commences during the general avian nesting season (February 1 through August 31), then pre-construction surveys for nesting birds shall be conducted by a qualified biologist no more than 2 weeks prior to vegetation removal. If active nests are found, then the biologist shall determine the need for exclusion zones or other temporal restrictions on construction, which shall be implemented if any are prescribed. No further mitigation shall be implemented if no active bird nests	LS

Potential Impact	Significance Before Mitigation Measures	Mitigation Measures	Significance After Mitigation Measures
		are found, and no mitigation need be implemented if vegetation removal occurs between August 31 and February 1.	
e) Local Biological Requirements	NI	None required	-
f) Conflict with Habitat Conservation Plans	NI	None required	-
3.5 CULTURAL RESOURCES			
a) Historical Resources	PS	CULT-1. In the event that further historical evaluation finds that the project may result in adverse effects on historical resources, the project shall be modified to incorporate any mitigation measures incorporated in the historical evaluation required to reduce potential effects to a less than significant level.	-
b) Archaeological Resources	PS	CULT-2. If any subsurface cultural or paleontological resources are encountered during construction of the project, all construction activities in the vicinity of the encounter shall be halted until a qualified archaeologist, or paleontologist as appropriate, can examine these materials, make a determination of their significance and, if significant, recommend further mitigation measures that would reduce potential effects to a level that is less than significant. Such measures could include 1) preservation in place or 2) excavation, recovery and curation by qualified professionals. The County Public Works Department shall be responsible for retaining qualified professionals, implementing recommended mitigation measures and documenting mitigation efforts in a written report, consistent with the requirements of	LS

Potential Impact	Significance Before Mitigation Measures	Mitigation Measures	Significance After Mitigation Measures
i otentiai impact	Measures	CEOA Guidelines Section 15064.5.	Measures
c) Paleontological Resources and Unique Geologic Features	PS	Mitigation Measure CULT-2.	LS
d) Human Burials	LS	None required	-
3.6 GEOLOGY AND SOILS			
a-1) Fault Rupture Hazards	NI	None required	-
a-2, 3) Seismic Hazards	LS	None required	-
a-4) Landslides	NI	None required	-
b) Soil Erosion	LS	None required	-
c) Geologic Instability	NI	None required	-
d) Expansive Soils	LS	None required	-
e) Adequacy of Soils for Wastewater Disposal	NI	None required	-
3.7 GREENHOUSE GAS EMISSIONS			
a, b) Project Emissions and Conflict with Plans	LS	None required	-
3.8 HAZARDS AND HAZARDOUS MATERIALS			
a) Hazardous Material Transport, Use and Storage	NI	None required	-
b, c) Release of Hazardous Materials	LS	None required	-
c) Hazardous Materials Releases Near Schools	NI	None required	

	Significance Before Mitigation		Significance After Mitigation
Potential Impact	Measures	Mitigation Measures	Measures
d) Hazardous Materials Sites	PS	HAZ-1. Prior to the start of project work on the bridge crossing TID Lateral No. 1, a Certified Asbestos Consultant shall assess the bridge for the presence of asbestos-containing materials, in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) asbestos regulations. The assessment shall include concrete structures and concrete pipes associated with the bridge. If the Certified Asbestos Consultant concludes that asbestos-containing materials are present in the bridge, then these materials must be removed prior to demolition. Removal work shall be conducted by a contractor whose employees are properly trained and equipped for such work in accordance with California Occupational Safety and Health Administration regulations. The handling, transport and disposal of the asbestos-containing materials shall be conducted in accordance with California Environmental Protection Agency and NESHAP regulations. Regardless of the presence or absence of asbestos- containing materials in the bridge, the SJVAPCD shall be notified of any demolition or renovation work on the bridge at least ten (10) business days prior to the start of such work.	LS
		HAZ-2. Prior to the start of project work on the bridge crossing TID Lateral No. 1, samples of paint from the bridge shall be taken and tested for lead. If the lead found in any of the paint samples exceeds the federal and state toxicity thresholds for lead, then the paint shall be removed and disposed of in accordance with Caltrans Standard Special Provision 14.11-13, Disturbance of Existing Paint Systems on Bridges.	

	Significance Before Mitigation		Significance After Mitigation
Potential Impact	Measures	Mitigation Measures	Measures
		HAZ-3. Prior to the start of project construction, the traffic striping on the project site shall be tested for the presence of heavy metals that exceed hazardous waste thresholds established by the California Code of Regulations. If heavy metals that exceed concentrations established by the California Code of Regulations are found, then the contractor shall treat the traffic striping and hazardous waste and dispose of it at a Class 1 disposal facility. Alternatively, the contractor may choose to treat the traffic striping as hazardous waste without testing and dispose of the striping at a Class 1 disposal facility if the volume of striping material is low.	
e, f) Airport and Airstrip Operations	NI	None required	-
g) Emergency Response and Evacuation	PS	HAZ 4. Prior to the start of project construction along roadways, the contractor shall develop and implement a detour plan for the southbound Carpenter Road approach to the intersection, and a Traffic Control Plan for the other three approaches. Both plans shall include such items as traffic control requirements, resident notification of access closure, and daily access restoration. The contractor shall specify dates and times of road closures or restrictions, if any, and shall ensure that adequate access will be provided for emergency vehicles. The plans shall be coordinated with the Stanislaus County Sheriff's Department, the Westport Fire Protection District, the Burbank Paradise Fire District, and the Industrial Fire Protection District, as appropriate, if construction will require road closures or lane restrictions.	LS

Potontial Impact	Significance Before Mitigation	Mitigation Massuras	Significance After Mitigation
h) Wildland Fire Hazards	NI	None required	-
3.9 HYDROLOGY AND WATER QUALITY		•	
a, f) Surface Waters	LS	None required	-
b) Groundwater Supplies	NI	None required	-
c, d) Drainage Patterns	LS	None required	-
e) Runoff	LS	None required	-
g, h) Flooding Hazards	NI	None required	-
i) Dam and Levee Failure Hazards	LS	None required	-
j) Seiche, Tsunami and Mudflow Hazards	NI	None required	-
3.10 LAND USE AND PLANNING			
a) Division of Established Communities	NI	None required	
b) Conflict with Applicable Plans, Policies and Regulations	LS	None required	-
c) Conflict with Habitat Conservation Plans	NI	None required	-
3.11 MINERAL RESOURCES			
a, b) Loss of Mineral Resource Availability	NI	None required	-

Potential Impact	Significance Before Mitigation Measures	Mitigation Measures	Significance After Mitigation Measures
3.12 NOISE		U	
a) Exposure to Noise Levels Above Standards	PS	NOISE-1. All equipment used on the construction site shall be fitted with mufflers in accordance with manufacturers' specifications. Mufflers shall be installed on the equipment at all times on the construction site.	LS
b) Groundborne Vibrations	LS	None required	-
c) Permanent Increase in Ambient Noise Levels	NI	None required	-
d) Temporary or Periodic Increase in Ambient Noise Levels	PS	Mitigation Measure NOISE-1.	LS
e, f) Exposure to Airport/Airstrip Noise	NI	None required	-
3.13 POPULATION AND HOUSING			
a) Population Growth Inducement	NI	None required	-
b, c) Displacement of Housing and People	NI	None required	-

3.14 PUBLIC SERVICES			
a) Fire Protection	NI	None required	-
b) Police Protection	NI	None required	-
c) Schools	NI	None required	-
d, e) Parks and Other Public Facilities	NI	None required	-

Defended Incore at	Significance Before Mitigation	Miti anti au Manana	Significance After Mitigation
3.15 RECREATION	Measures	Mitigation Measures	Measures
a, b) Recreational Facilities	NI	None required	-
3.16 TRANSPORTATION/TRAFFIC			
a) Conflict with Transportation Plans, Ordinances and Policies	LS	None required	-
b) Conflict With Congestion Management Program	LS	None required	-
c) Air Traffic Patterns	NI	None required	-
d) Traffic Hazards	LS	None required	-
e) Emergency Access	PS	Mitigation Measure HAZ-4.	LS
f) Conflict with Non-vehicular Transportation Plans	LS	None required	-
3.17 TRIBAL CULTURAL RESOURCES			
a, b) Tribal Cultural Resources	LS	None required	•
3.18 UTILITIES AND SERVICE SYSTEMS			
a, b, e) Wastewater Systems	NI	None required	•
b, d) Water Systems and Supplies	NI	None required	-
c) Stormwater Systems	LS	None required	-
f, g) Solid Waste Services	NI	None required	-

	Significance Before Mitigation		Significance After Mitigation
Potential Impact	Measures	Mitigation Measures	Measures
3.19 MANDATORY FINDINGS OF SIGNIFICANCE			
a) Findings on Biological and Cultural Resources	PS	Mitigation measures in Sections 3.4 and 3.5.	-
b) Findings on Individually Limited but Cumulatively Considerable Impacts	LS	None required	-
c) Findings on Adverse Effects on Human Beings	LS	None required	-

## 2.0 PROJECT DESCRIPTION

### 2.1 Project Brief

The project proposes to install a traffic signal at the existing Carpenter Road/Whitmore Avenue intersection. The intersection would be widened to accommodate existing and projected traffic and to provide lane transitions and shoulder area. Each approach would provide a left-turn pocket and a through/right turn lane. Widening and required transitions would extend from the intersection center approximately 1,200 feet in all directions. The improved roadway sections would be restriped and signed in accordance with County and State standards.

To accommodate lane transitions on the southbound Carpenter Road approach, the project would replace an existing bridge that crosses TID Lateral No. 1 with a box culvert. The project would require grading of the existing undeveloped County right-of-way. Existing pavement areas may be removed and replaced or rehabilitated. Road construction would involve excavation to establish subgrades for roadway reconstruction, road widening, and sign and signal structure foundations.

The completed project would require approximately 72,400 square feet of additional right-of-way, and temporary construction easements may be required for planned staging areas. The project would require removal of existing roadside vegetation within the existing right-of-way, and some orchard trees would require removal in the acquired right-of-way. Some existing utility poles with attached overhead utility lines would require relocation, along with possibly an existing natural gas pipeline.

#### 2.2 Project Location

The project site is located approximately 0.75 miles southwest of the City of Modesto in central Stanislaus County, California (see Figures 1-1 through 1-4). The project site is shown on the U.S. Geological Survey's Brush Lake, California, 7.5-minute quadrangle map at the intersection of Sections 12 and 13, Township 4 South, Range 8 East; and Sections 7 and 18, Township 4 South, Range 9 East, Mt. Diablo Base and Meridian. Approximate latitude is 37° 35' 42" North, and approximate longitude is 121° 01' 49" West.

#### 2.3 Project Objectives

The objective of the project is to improve is to improve traffic safety and flow through the Carpenter Road/Whitmore Avenue intersection for both current and future traffic conditions, while minimizing the impacts of these improvements on adjacent lands and facilities to the extent feasible. The project is being pursued under the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, the objective of which is to support surface transportation projects and other related efforts that contribute to air quality improvements and provide congestion relief.

#### 2.4 Project Details

Figure 2-1 shows the proposed project site plan. A traffic signal would be installed at the Carpenter Road/Whitmore Avenue intersection in place of the existing four-way stop signs. Signalization would require the installation of foundations, poles and mast arms to support the proposed signal assemblies, street name signs and luminaires, and control boxes and other related equipment. Multiphase control would anticipate turning movements on all four approaches.

All four approaches to the intersection would be widened to accommodate existing and projected traffic operations and to provide lane transitions and shoulder area. Widening and required transitions would extend from the intersection center approximately 1,200 feet along both Carpenter Road and Whitmore Avenue. The widened approaches to the intersection would accommodate a left-turn pocket at each approach, along with a combined through-right turn lane. The project would not add any through lanes, nor would it increase traffic capacity. The improved roadway sections would be restriped and signed in accordance with County and State standards.

Project improvements would occur within the existing County right-of-way to the extent feasible. Approximately 72,400 square feet of additional right-of-way would be acquired along the southern side of Whitmore Avenue and along the western side of Carpenter Road. The additional right-of-way is necessary to accommodate the proposed improvements to the intersection while avoiding potential impacts on access to TID Lateral No. 1. TID Lateral No. 1 is an irrigation canal which runs parallel to Whitmore Avenue west of the intersection, before turning northeast before the intersection and crossing Carpenter Road. Figure 2-2 illustrates the Area of Potential Effect (APE) of the project. The APE is the basis for some of the environmental impact analysis in this IS/MND.

The project would require grading of the existing undeveloped County right-of-way. Existing pavement areas may be removed and replaced or rehabilitated. Road construction would involve excavation to establish subgrades for roadway reconstruction, road widening, and sign and signal structure foundations. The anticipated maximum depth of excavation for paved areas is estimated at 5 feet. Excavation for signal poles may go as deep as 13 feet. Grading would also occur at two driveways and three farm access roads to allow their continued use.

Project widening on Carpenter Road north of the intersection would require the replacement of an existing bridge across TID Lateral No. 1 in order to accommodate lane transitions. The project proposes to replace the bridge with a dual box culvert. TID would be consulted prior to the start of work at the bridge site to avoid disruption of water service and adverse water quality effects. Although the segment of Whitmore Avenue west of the intersection is adjacent to TID Lateral No. 1, the project would avoid the canal and existing vehicle access to the facility.

Existing overhead utilities, including overhead communication lines, would require relocation. Approximately nine utility poles along Whitmore Avenue would need to be relocated, as well as approximately eight utility poles along Carpenter Road (see Figure 2-1). The utility poles would be relocated to the edge of the expanded County right-of-way. In addition, an existing natural gas pipeline that runs along Carpenter Road may need to be relocated. The project would not require removal of structures, but existing paved sections may be removed and replaced or rehabilitated on site. The project would require removal of existing roadside vegetation within the existing right-of-way and of orchard trees within the right-of-way proposed for acquisition.

Equipment and materials staging for the project would occur within existing County road right-ofway and one or two staging areas for construction equipment to be located on adjacent private lands. At this time, no staging areas have been designated. Permission would be obtained from the affected landowners before the staging areas are established. Existing traffic through the intersection would be accommodated during the construction period pursuant to a Traffic Control Plan to be prepared by the contractor. Traffic lanes likely would be reduced during project construction on the eastbound, westbound, and northbound approaches to the intersection. The southbound approach would be closed during project work at the TID canal crossing.

#### 2.5 Permits and Approvals

The County is the Lead Agency for this project for the purposes of CEQA. Principal discretionary permits and approvals, along with encroachment permits, would be granted by the County. Work on the bridge crossing TID Lateral No. 1 would require approval from TID. TID Lateral No. 1 is considered a "Water of the U.S." that normally would fall under the jurisdiction of the permit program established under Section 404 of the federal Clean Water Act, but the project has been determined to be exempt from permit requirements. Section 3.4, Biological Resources, discusses this topic in more detail.

It is the intent of the County to procure federal funding for the project through the CMAQ Program, administered by the Federal Highway Administration. The CMAQ Program, originally enacted in 1991, supports surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief. Projects that use federal funds are required to complete environmental review procedures under the National Environmental Policy Act (NEPA). In California, NEPA reviews for transportation projects are managed through the California Department of Transportation (Caltrans), as assigned by the Federal Highway Administration under the Surface Transportation Project Delivery System. All required documents associated with NEPA compliance shall be reviewed and approved by Caltrans. This is a separate procedure from CEQA, but information contained in this CEQA document may be used in the fulfillment of NEPA requirements.







(mf) MARK THOMAS & COMPANY

Figure 2-1 PROJECT SITE PLAN

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BaseCamp Environmental



BaseCamp Environmental

Figure 2-2 AREA OF POTENTIAL EFFECT

### 3.0 ENVIRONMENTAL CHECKLIST FORM

#### 3.1 AESTHETICS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?				
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?				
c) Substantially degrade the existing visual character or quality of the site and its surroundings?				
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?				

#### NARRATIVE DISCUSSION

#### Environmental Setting

The project site is in a predominantly rural area southwest of Modesto, consisting primarily of orchards with scattered rural residences. Utility poles are located along both sides of Carpenter Road and Whitmore Avenue in the project vicinity. Lateral No. 1, a canal managed by TID, parallels Whitmore Avenue west of the intersection, then turns to the northeast and passes underneath a bridge on Carpenter Road before turning north and paralleling Carpenter Road. Lighting in the vicinity consists mainly of one streetlight located at the northwest corner of the intersection.

In the distance, views of the Coast Ranges to the west and the Sierra Nevada to the east constitute the major scenic vistas, although orchard trees obstruct much of these vistas. No State or local scenic highways have been designated in the vicinity – the nearest scenic highway is a segment of Interstate 5 in western Stanislaus County that has been designated a State scenic highway (Caltrans 2015).

#### **Environmental Impacts and Mitigation Measures**

a) Scenic Vistas.

The project would not involve the construction of new structures that would obstruct existing scenic vistas. Existing conditions regarding scenic vistas from the project site would not change. The project would have no impact on this issue.

b) Scenic Routes and Resources.

There are no designated scenic highways in the project vicinity. Orchards are considered the main scenic resource in the area. Some orchard trees would be removed within the right-of-way planned for acquisition, but this would not substantially alter the overall visual character of the project site. Orchards would remain the predominant visual feature in the landscape even after this limited tree removal. No other scenic resources have been identified in the vicinity. Project impacts would be less than significant.

c) Visual Character and Quality.

The project area is predominantly rural; however, some urban features already exist, such as utility poles and lines along Carpenter Road and Whitmore Avenue. The installation of a traffic signal would introduce another urban feature to the area. The existing orchard trees would screen the traffic signal from the view of rural residences in the area. As noted in b) above, some orchard trees would be removed, but the overall visual character of the project site would not be altered. Project impacts are considered less than significant.

d) Light and Glare.

The project would involve the introduction of a traffic signal in an area that currently has none. As there is an existing street light at the intersection, the signal would be installed in an area that is already impacted by lighting. As noted above, the existing orchards would screen the traffic signal from nearby rural residences, the closest of which is approximately 525 feet from the intersection. In addition, residences would be distant enough from the traffic signal to receive very little indirect illumination. Project impacts related to light or glare would be less than significant.

### 3.2 AGRICULTURE AND FORESTRY RESOURCES

Would th	e project:
----------	------------

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?

d) Result in the loss of forest land or conversion of forest land to non-forest use?

Potentially	Less Than
Significant	Significant
Impact	With
-	Mitigation
	Incorporated

Less Than No Impact Significant Impact

	Impact	
d		

	$\checkmark$	
		N

e) Involve other changes in the existing environment, which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

#### NARRATIVE DISCUSSION

#### Environmental Setting

Agriculture is the predominant land use in Stanislaus County, with approximately 80.3% of the county's land area in farms (USDA 2014). Orchard land surrounds the project site. The orchards are predominantly almond and walnut.

The Important Farmland Maps, prepared by the California Department of Conservation as part of the Farmland Mapping and Monitoring Program, designate the viability of lands for farmland use, based on the physical and chemical properties of the soils. The maps categorize farmland, in decreasing order of soil quality, as "Prime Farmland," "Farmland of Statewide Importance," and "Unique Farmland." Collectively, these categories are referred to as "Farmland" in the Environmental Checklist in CEQA Guidelines Appendix G. According to the 2014 Important Farmland Map of Stanislaus County, the land adjacent to the project site is classified as Prime Farmland.

The Williamson Act is State legislation that seeks to preserve farmland by offering property tax breaks to farmers who sign a contract pledging to keep their land in agricultural use. The parcel adjacent to the northwest corner of the project site, Assessor's Parcel Number (APN) 017-042-003, is under a Williamson Act contract (see Figure 1-5).

The Stanislaus County General Plan (Stanislaus County 2016b) contains an Agricultural Element, which intends to promote and protect local agriculture through the adoption of policies designed to achieve three main goals: to strengthen the agricultural sector of the economy, to conserve agricultural lands for agricultural uses, and to protect the natural resources that sustain agriculture. To achieve these goals, the Agricultural Element sets forth several objectives, policies and implementing measures, the overall focus of which is on the mitigation of negative economic and environmental impacts to agricultural land and to the natural resources needed to support local agriculture.

The County has established a Farmland Mitigation Program, the purpose of which is to aid in mitigating the loss of farmland resulting from residential development in the unincorporated areas of the County by requiring the permanent protection of farmland based on a 1:1 ratio to the amount of farmland converted. This program applies only to development projects requiring a General Plan or Community Plan amendment to change a land use designation from Agriculture to a residential designation. The County has also enacted a Right to Farm ordinance to protect farmers from nuisance suits as a result of normal farming practices.

There are no forest lands designated by the County or by State or federal agencies in the project vicinity. Because of this, forestry resources will not be discussed further in this document.

### Environmental Impacts and Mitigation Measures

a) Agricultural Land Conversion.

While much of the project would be constructed within the existing County right-of-way, approximately 72,400 square feet (1.66 acres) of additional right-of-way is proposed for acquisition, all of it from land classified as Prime Farmland. The project would result in the conversion of some Prime Farmland to non-urban uses. Moreover, some of this additional right-of-way is currently planted with orchard trees, and the project would require the removal of these trees. An in-lieu fee program is one way to compensate for the loss of farmland, but the County's in-lieu fee program applies only to conversions to residential land uses.

The conversion of this land would not compromise the long-term productive agricultural capability of the adjacent agricultural parcels, and it would not significantly displace or impair agricultural operations in the vicinity. While 9,345 acres of Prime Farmland have been lost in Stanislaus County from 2004 to 2014, the amount of Farmland in total has actually increased by 28,583 acres during that same time period, mostly in Unique Farmland (California Department of Conservation FMMP 2015). Moreover, the improvements proposed at the intersection would improve traffic flow and safety. As agricultural vehicles and equipment are a part of this traffic, the project would be a benefit to these vehicles and the agricultural operations for which they are used. Based on this, the conversion of Prime Farmland that would occur as a result of the project is considered less than significant.

b) Agricultural Zoning and Williamson Act.

The project proposes to acquire right-of-way from adjacent lands that are zoned for agricultural uses. Roads are considered a legitimate use in an agricultural zone. Project impacts related to agricultural zoning are considered less than significant.

One of the adjacent parcels, APN 017-042-003, is under a Williamson Act contract. The project proposes to acquire approximately 5,500 square feet from this parcel. Section 21.20.045 of the Stanislaus County Code states that uses requiring use permits may be found to be compatible with Williamson Act lands if the use 1) will not significantly compromise the long-term productive agricultural capability of the subject contracted parcel, 2) will not significantly displace or impair current or reasonably foreseeable agricultural operations on the subject contracted parcel, and 3) will not result in the significant removal of adjacent contracted land from agricultural or open-space use.

While this project would not require a use permit, the criteria described above provide a basis for determining the significance of the project's impacts. The land that would be acquired for additional right-of-way would not compromise the long-term productive agricultural capability of APN 017-042-003, as the land that would be taken is a narrow strip along a road. For the same reason, the project would not significantly displace or impair agricultural operations on APN 017-042-003. Finally, the amount of land that would be taken would be less than 0.13 acres, which by itself is too small for an economically viable agricultural operation. The amount of land that would be taken is not considered a significant removal from agricultural use. Project impacts on Williamson Act land are considered less than significant.

c, d) Forest Land Conversion and Zoning.

As previously noted, there is no designated forest land in the project vicinity. The project would have no impact on forest lands.

e) Indirect Conversion of Farmland and Forest Land.

The project would not involve any conflict with, or have an adverse effect on, the ongoing and continued use of agricultural land in the project vicinity. The project is not expected to induce conversion of adjacent farmland, as the capacity of the intersection and the roads leading to it would not change. As there is no forest land in the area, the project would have no impact on indirect conversion of forestland to non-forest use. The project would have no impact related to indirect conversion of resource lands.

### 3.3 AIR QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable Air Quality Attainment Plan?				
b) Violate any air quality standard or contribute to an existing or projected air quality violation?				
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non- attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?			$\checkmark$	
d) Expose sensitive receptors to substantial pollutant concentrations?			$\checkmark$	
e) Create objectionable odors affecting a substantial number of people?				

### NARRATIVE DISCUSSION

#### **Environmental Setting**

#### Air Quality Background

The project site is located within the San Joaquin Valley Air Basin. The San Joaquin Valley Air Pollution Control District (SJVAPCD), which includes San Joaquin County, has jurisdiction over most air quality matters in the San Joaquin Valley Air Basin. The SJVAPCD implements programs and regulations required by both the federal and California Clean Air Acts. Under their respective Clean Air Acts, both the State of California and the federal government have established ambient air quality standards for six criteria air pollutants: ozone, particulate matter (PM), carbon monoxide, nitrogen dioxide, sulfur dioxide, and lead. California has four additional criteria pollutants under its Clean Air Act.

Table 3-1 shows the current attainment status of the Air Basin relative to the federal and State ambient air quality standards for criteria pollutants. Except for ozone and particulate matter, which are discussed below, the Air Basin is in attainment of, or unclassified for, all federal and State ambient air quality standards.

## TABLE 3-1 SAN JOAQUIN VALLEY AIR BASIN ATTAINMENT STATUS

	Designation/Classification		
Criteria Pollutant	Federal Primary Standards	State Standards	
Ozone - One hour	No Federal Standard	Nonattainment/Severe	
Ozone - Eight hour	Nonattainment/Extreme	Nonattainment	
$PM_{10}$	Attainment	Nonattainment	
PM <sub>2.5</sub>	Nonattainment	Nonattainment	
Carbon Monoxide (CO)	Attainment/Unclassified	Attainment/Unclassified	
Nitrogen Dioxide (NO <sub>x</sub> )	Attainment/Unclassified	Attainment	
Sulfur Dioxide	Attainment/Unclassified	Attainment	
Lead	No Designation/Classification	Attainment	
Hydrogen Sulfide	No Federal Standard	Unclassified	
Sulfates	No Federal Standard	Attainment	
Visibility Reducing Particles	No Federal Standard	Unclassified	
Vinyl Chloride	No Federal Standard	Attainment	
Source: SJVAPCD 2015a.			

#### Air Pollutants of Concern

The San Joaquin Valley Air Basin is designated a non-attainment area for ozone under both federal and State standards. Ozone is not emitted directly into the air, but is formed by a photochemical reaction in the atmosphere. Ozone precursors, which include reactive organic gases (ROG) and nitrogen oxides ( $NO_x$ ), react in the atmosphere in the presence of sunlight to form ozone. Ozone is a respiratory irritant and an oxidant that increases susceptibility to respiratory infections and can cause substantial damage to vegetation and other materials.

The Air Basin is also designated a non-attainment area for respirable particulate matter. This mixture of solid and liquid particles suspended in air can include dust, pollen, soot, smoke, and other toxic materials. Health concerns associated with suspended particulate matter focus on those particles small enough to reach the lungs when inhaled; consequently, both the federal and state air quality standards for particulate matter apply to particulates 10 micrometers or less in diameter ( $PM_{10}$ ) as well as to particulates 2.5 micrometers or less in diameter ( $PM_{2.5}$ ), which are carried

deeper into the lungs.  $PM_{2.5}$  is emitted by combustion sources like vehicles, power generation, industrial processes, and wood burning;  $PM_{10}$  sources include these plus roads and farming activities. Acute and chronic health effects associated with high particulate levels include the aggravation of chronic respiratory diseases, heart and lung disease, coughing, bronchitis, and respiratory illnesses in children. The Air Basin is designated an attainment area under federal  $PM_{10}$  standards, but as nonattainment under all other particulate matter standards.

Carbon monoxide (CO) is an odorless, colorless gas that is toxic in high concentrations. It is formed by the incomplete combustion of fuels and is emitted directly into the air, unlike ozone. The main source of CO in the San Joaquin Valley is on-road motor vehicles (SJVAPCD 2015b). High CO concentrations occur in areas of limited geographic size, sometimes referred to as "hot spots," which are ordinarily associated with areas of highly congested traffic.

In addition to the criteria pollutants, the California Air Resources Board (ARB) has also identified other air pollutants as toxic air contaminants (TACs) - pollutants that may cause acute serious, long-term effects, such as cancer, even at low levels. Diesel particulate matter is the most commonly identified TAC, generated mainly as a product of combustion in diesel engines. Other TACs are less common and are typically associated with industrial activities.

#### Air Quality Regulations

As previously noted, the SJVAPCD has jurisdiction over most air quality matters in the Air Basin. It implements the federal and California Clean Air Acts, and the applicable attainment and maintenance plans, through local regulations. Applicable attainment plans include the 2007 Ozone Plan and the 2013 Plan for the Revoked 1-Hour Ozone Standard for the Air Basin. They also include the 2015  $PM_{2.5}$  Plan for the 1997 federal  $PM_{2.5}$  standard, the 2012  $PM_{2.5}$  Plan for the 2006 federal  $PM_{2.5}$  standard, the 2016 Moderate Area Plan for the 2012 federal  $PM_{2.5}$  standard, and the 2007  $PM_{10}$  Maintenance Plan to maintain the Air Basin's attainment status of the federal  $PM_{10}$  standard. The SJVAPCD regulations that would be applicable to the project are summarized below.

#### *Regulation VIII (Fugitive Dust PM<sub>10</sub> Prohibitions)*

Rules 8011-8081 are designed to reduce  $PM_{10}$  emissions (predominantly dust/dirt) generated by human activity, including construction and demolition activities, road construction, bulk materials storage, paved and unpaved roads, carryout and track out, landfill operations, etc.

#### Rule 4101 (Visible Emissions)

This rule prohibits emissions of visible air contaminants to the atmosphere and applies to any source operation that emits or may emit air contaminants.

#### Rule 9510 (Indirect Source Review)

Rule 9510, also known as the Indirect Source Rule, is intended to reduce or mitigate emissions of  $NO_x$  and  $PM_{10}$  from new development in the SJVAPCD including construction and operational emissions. This rule requires specific percentage reductions in estimated "on-site" construction and operation emissions, and/or payment of off-site mitigation fees for required reductions that cannot be met on the project site. Rule 9510 applies to transportation and transit projects where construction exhaust emissions exceed 2.0 tons of  $NO_x$  or  $PM_{10}$ .

The SJVAPCD has developed plans to attain State and federal standards for ozone and particulate matter. These air quality attainment plans include emissions inventories to measure the sources of air pollutants, to evaluate how well different control methods have worked, and to show how air

pollution will be reduced. The plans also use computer modeling to estimate future levels of pollution and to ensure that the Air Basin will meet air quality goals (SJVAPCD 2015b). A State Implementation Plan for carbon monoxide has been adopted by ARB for the entire state.

#### **Environmental Impacts and Mitigation Measures**

In 2015, the SJVAPCD adopted a revised Guide for Assessing and Mitigating Air Quality Impacts (GAMAQI). GAMAQI defines an analysis methodology, thresholds of significance, and mitigation measures for the assessment of air quality impacts for projects within SJVAPCD's jurisdiction. Table 3-2 shows the CEQA thresholds for significance contained in GAMAQI for specific pollutants. The significance thresholds apply to emissions from both project construction and project operations.

Construction of the project would involve the use of heavy equipment powered by diesel or other internal combustion engines. Project construction emissions were estimated using the Road Construction Emissions Model (RCEM). The RCEM is a model developed specifically to estimate construction emissions from road projects. The RCEM results are shown in Appendix A of this document. Emissions generated by construction activities associated with the proposed project, assumed to take six months in 2018, are shown in Table 3-2 below.

Pollutant	SJVAPCD Significance Threshold (tons/year)	Project Construction Emissions*	Exceeds Threshold?
СО	100	2.2	No
NO <sub>x</sub>	10	3.6	No
ROG	10	0.4	No
PM <sub>10</sub>	15	0.2	No
PM <sub>2.5</sub>	15	0.2	No

# TABLE 3-2PROJECT CONSTRUCTION AIR POLLUTANT EMISSIONS

\* Tons emitted for construction period (6 months).

Sources: Road Construction Emissions Model v. 7.1.5.1, SJVAPCD 2015b

#### a) Air Quality Plan Consistency.

The project would not increase vehicle capacity of the intersection or the roads leading into it. Moreover, the project is intended to facilitate traffic flow through the intersection, thereby reducing the amount of pollutants generated by traffic. The project would be consistent with the goals of the air quality attainment plans of the SJVAPCD and the State of California. It also would be consistent with the goals of the CMAQ Program, described in Chapter 2.0, Project Description. Project impacts on consistency with applicable air quality attainment plans are considered less than significant.

#### b) Violation of Air Quality Standards.

As indicated in Table 3-2 above, estimated project construction air emissions would be substantially below the applicable significance thresholds adopted by the SJVAPCD. Moreover, dust emissions ( $PM_{10}$  and  $PM_{2.5}$ ) would be further reduced through implementation of dust control measures in SJVAPCD Regulation VIII, including submittal of a Dust Control Plan as the project
would disturb more than 5 acres of land. The GAMAQI states that compliance with Regulation VIII would reduce dust impacts to a level that would be less than significant.

Project construction exhaust emissions of  $NO_x$  would exceed the 2.0-ton standard established by SJVAPCD's Indirect Source Rule (Rule 9510). Because of this, this project would be subject to the emission control provisions of Rule 9510, which require a 20% reduction in  $NO_x$  construction emissions and a 45% reduction in  $PM_{10}$  exhaust emissions. This would further lower the amount of  $NO_x$  and  $PM_{10}$  project construction emissions, which were already determined to be less than significant.

The main pollutant of concern associated with road intersections is CO, which is typically associated with large volumes of traffic. The GAMAQI states that a project would create no violations of the CO standards if neither of the following criteria are met:

- A traffic study for the project indicates that the Level of Service (LOS) on one or more streets or at one or more intersections in the project vicinity will be reduced to LOS E or F; or
- A traffic study indicates that the project will substantially worsen an already existing LOS F on one or more streets or at one or more intersections in the project vicinity (See Section 3.16, Transportation/Traffic, for an explanation of LOS).

The project is expected to improve LOS conditions at the intersection and is not expected to worsen conditions on roads and intersections in the vicinity to LOS levels E or F. As noted in Section 3.16, Transportation/Traffic, the intersection is expected to maintain at least the minimum acceptable LOS of C, as set by the County. By these criteria, the project would have no adverse impact related to CO emissions. Overall, projects impacts on air quality standards are considered less than significant.

c) Cumulative Emissions.

As previously noted, the project would not increase traffic capacity, so it would not generate any pollutant emissions above those currently generated by traffic. While traffic volumes in the Modesto area are expected to increase in the future, the project would not lead to an increase in emissions beyond that anticipated from projected traffic volumes. Project impacts on cumulative air pollutant emissions would be less than significant.

d) Exposure of Sensitive Receptors.

The nearest sensitive receptors to the project site are rural residences the closest of which is approximately 525 feet to the southeast. Project construction emissions, including criteria pollutants and diesel particulate matter (a TAC), would dissipate over largely agricultural lands before reaching residences, and any exposure would be for a short time. Health impacts would occur only with long-term exposure. The project would not generate any substantial or long-term air emissions that have the potential to affect these sensitive receptors. Project impacts are considered less than significant.

e) Odors.

The project does not involve any features that would generate noticeable odors during either construction or operation. There are no land uses potentially sensitive to odors that are adjacent to the project site. The project would have no impact related to odors.

## 3.4 BIOLOGICAL RESOURCES

Would the project:

a) Adversely impact, either directly or through habitat modifications, any endangered, rare, or threatened species, as listed in Title 14 of the California Code of Regulations (Sections 670.2 or 670.5) or in Title 50, Code of Federal Regulations (Sections 17.11 or 17.12)?

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, or regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?

c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Conservation Community Plan, or other approved local, regional, or state habitat conservation plan?

NARRATIVE DISCUSSION

#### **Environmental Setting**

Information for this section primarily comes from a Natural Environmental Study-Minimal Impact (NES-MI) for the project conducted in accordance with California Department of Transportation (Caltrans) procedures. Appendix B contains a copy of the NES-MI, prepared by Moore Biological Consultants.

#### Vegetation

As described in Section 3.1, Aesthetics, the project site is in a predominantly rural area southwest of Modesto, consisting primarily of orchards with scattered rural residences. The project vicinity consisted historically of valley grassland vegetation, but virtually all of the grassland in the vicinity

Potentially Significant Impact	Less Than Significant With Mitigation	Less Than Significant Impact	No
	Incorporated		

Impact

	N	
N		
v		
		N

has been disturbed and is either paved roadway, weedy grassland, orchards, or developed area. The ruderal (weedy) areas are vegetated with various native and non-native annual grass and weed species, such as oats, soft chess brome, ripgut brome, and foxtail barley. Intermixed with these grassland species are black mustard, prickly lettuce, common sunflower, and filaree. Invasive species include yellow star-thistle and puncture vine. A few residential parcels in the vicinity have ornamental trees and shrubs, along with areas of lawns. The orchards in the vicinity are predominantly almond and walnut.

#### Wildlife

Due to construction and maintenance of the roads and TID Lateral No. 1 and to intensive agriculture, habitat is available for a limited number terrestrial wildlife species. Resident and migratory bird species use the project vicinity for foraging and for nesting. Red-tailed hawk, turkey vulture, American kestrel, mourning dove, western kingbird, and Brewer's blackbird were representative of bird species observed in the area. Signs of raccoon and striped skunk were observed, and a dead black-tailed hare was seen on a road shoulder. Species such as desert cottontail and California ground squirrel are expected to occur in the area, along with a number of species of small rodents such as mice and voles. Western fence lizard was the only reptile or amphibian observed, but common species such as Pacific chorus frog, common king snake, and common garter snake are expected to occur.

#### Waters of the U.S.

There are no natural streams in the vicinity, so no associated riparian areas exist. The nearest river is the Tuolumne River, approximately 0.8 miles north of the project site, and reconnaissance of the site did not find any indication of wetlands that would be subject to a Section 404 permit. The U.S. Clean Water Act establishes conditions and permitting for discharges of pollutants into the Waters of the United States. Section 404 permits are issued by the U.S. Army Corps of Engineers (USACE) to projects which may discharge dredged or fill material into Waters of the U.S.

TID Lateral No.1 is adjacent to the project site. Although it is a constructed channel, an irrigation canal could be a potential Water of the U.S. that falls under Section 404 jurisdiction if it is hydrologically connected to another jurisdictional Water of the U.S.

#### Special-Status Species

Special-status species are plants and animals that are legally protected under the federal Endangered Species Act and/or the California Endangered Species Act (CESA) or other regulations. Special-status wildlife species also includes species that are considered rare enough by the scientific community and trustee agencies to warrant special consideration, particularly with regard to protection of isolated populations, nesting or denning locations, communal roosts, and other essential habitat. Special-status plants are those which are designated rare, threatened, or endangered and candidate species for listing by the U.S. Fish and Wildlife Service (USFWS), and species considered rare or endangered under the conditions of CEQA Guidelines Section 15380, such as those plant species identified on Lists 1A, 1B and 2 in the Inventory of Rare and Endangered Vascular Plants of California prepared by the California Native Plant Society (CNPS). Special-status plants may include other species that are considered sensitive or of special concern due to limited distribution or lack of adequate information to permit listing or rejection for state or federal status, such as those included on CNPS List 3.

Table 1 of the NES (see Appendix B) lists 12 special-status plant species and 25 special-status wildlife species that may occur potentially in the project vicinity. Most of these species are considered unlikely to occur in the project area due to lack of habitat. However, habitat has been identified as present in the area for two special-status species, both birds: Swainson's hawk and burrowing owl. Swainson's hawk is listed as threatened under CESA, while the burrowing owl is considered a State Species of Concern. Although neither of these species were observed in the project area, potential suitable foraging and nesting habitats are present.

#### Biological Resource Plans and Ordinances

The Conservation/Open Space Element of the Stanislaus County General Plan (Stanislaus County 2016b) contains policies encouraging protection of biological resources such as rare and endangered species habitats and oak woodland. At this time, the County does not have any biological resource protection ordinances that implement these policies. There are no habitat conservation plans (HCPs) or similar conservation plans applicable to Stanislaus County, except for the Pacific Gas and Electric Company (PG&E) San Joaquin Valley Operations and Maintenance HCP, which covers the entire San Joaquin Valley. This HCP applies only to PG&E's gas and electrical transmission and distribution facilities, lands, access routes, minor expansion areas, and mitigation areas.

#### Environmental Impacts and Mitigation Measures

a) Special-Status Species.

The NES identified 37 species that may potentially occur in the project vicinity. Most of these species are considered unlikely to occur due to lack of habitat, including all of the special-status plant species. The fish species require natural water channels, while the crustacean species require vernal pools. Neither of these habitats exist at the project site. There is a lack of suitable aquatic habitat for the special-status amphibians and reptile species, as well as a lack of suitable breeding habitat. The one species not requiring water, the valley elderberry longhorn beetle, requires elderberry shrubs, which were not found in the vicinity.

The agricultural fields near the project site could provide potential foraging habitat for Swainson's hawk, and there are suitable nest trees for the species in the area. While the area could provide potential foraging and nesting habitat for burrowing owl, no squirrel burrows favored for nesting were found, and the NES concluded that it was unlikely that any burrowing owl would occur in the project area.

Direct take of Swainson's hawk, or disruption of its nesting behavior, as a result of project construction activities is considered a potentially significant impact. Mitigation described below would reduce potential impacts on these species to a level that would be less than significant.

Level of Significance: Potentially significant

Mitigation Measures:

BIO-1: If construction commences between March 1 and September 1, then preconstruction surveys for nesting Swainson's hawks shall be conducted within 0.25 miles of the project construction area by a qualified biologist. If active nests are found, then the biologist shall determine the need for exclusion zones or other temporal restrictions on construction, which shall be implemented if any are prescribed. The determination shall be made pursuant to criteria set forth by the California Department of Fish and Wildlife (CDFW) in its 1994 Staff Report Regarding Mitigation for Impacts to Swainson's Hawk (*Buteo swainsoni*) in the Central Valley of California. No further mitigation shall be implemented if no active Swainson's hawk nests are found, and no mitigation need be implemented if construction activities occur between September 1 and March 1.

#### Significance After Mitigation: Less than significant

b) Riparian and Other Sensitive Habitats.

As described in Environmental Setting above, there are no natural streams with associated riparian habitat in the project vicinity. Given the existing agricultural and rural residential landscape, it is unlikely that any intact natural communities exist in the vicinity of the project site. The project would have no impact on riparian and other sensitive habitats.

c) Wetlands.

As described in the Environmental Setting, reconnaissance of the project site did not find any indication of wetlands or natural streams that would be affected by the project. The NES concluded that TID Lateral No. 1 is a jurisdictional Water of the U.S., as it is connected to two Waters of the U.S. – the Tuolumne River, where it receives water, and the San Joaquin River, where it ultimately discharges water. However, USACE Regulatory Guidance Letter 07-02 exempts the type of project proposed at the lateral - the replacement of a bridge with a box culvert - from Section 404 permitting procedures. The County would coordinate with TID on any activity affecting the lateral so as to minimize potential impacts. Impacts on wetlands and Waters of the U.S. are considered less than significant.

d) Fish and Wildlife Movement.

As previously noted, there are no natural streams in the project vicinity, so potential migratory corridors for fish would not be affected by this project. The project vicinity could provide potential nesting and foraging habitat for migratory birds. Mitigation described below would reduce potential impacts on migratory birds to a level that would be less than significant.

Level of Significance: Potentially significant

Mitigation Measures:

BIO-2: If vegetation removal commences during the general avian nesting season (February 1 through August 31), then pre-construction surveys for nesting birds shall be conducted by a qualified biologist no more than 2 weeks prior to vegetation removal. If active nests are found, then the biologist shall determine the need for exclusion zones or other temporal restrictions on construction, which shall be implemented if any are prescribed. No further mitigation shall be implemented if no active bird nests are found, and no mitigation need be implemented if vegetation removal occurs between August 31 and February 1.

Significance After Mitigation: Less than significant

e) Local Biological Requirements.

As noted in Environmental Setting above, the Stanislaus County General Plan contains policies encouraging protection of biological resources, but the County has enacted no ordinances to implement these policies. In addition, no sensitive habitats or oak woodlands are located in the project vicinity. The project would have no impact on this issue.

f) Conflict with Habitat Conservation Plans.

As previously noted, there are no habitat conservation plans or similar plans applicable to the project site. The project would have no impact on this issue.

## 3.5 CULTURAL RESOURCES

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?				
b) Cause a substantial adverse change in the significance of a unique archaeological resource (i.e., an artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it contains information needed to answer important scientific research questions, has a special and particular quality such as being the oldest or best available example of its type, or is directly associated with a scientifically recognized important prehistoric or historic event or person)?		$\checkmark$		
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		$\checkmark$		
d) Disturb any human remains, including those interred outside of formal cemeteries?				

## NARRATIVE DISCUSSION

## **Environmental Setting**

Information for this section primarily comes from an Archaeological Survey Report (ASR) and a Historic Properties Survey Report (HPSR) for the project conducted in accordance with California Department of Transportation (Caltrans) procedures. The ASR involved a search of records at the Central California Information Center and a field survey of the project APE, among other activities. Appendix C contains a copy of the ASR and the HPSR, both prepared by Davis-King and Associates. Supplemental information for this section is provided by the Draft Program EIR for the Stanislaus County General Plan Update (Stanislaus County 2016a) and other documents.

#### Prehistoric and Historic Resources

The prehistoric populations of Stanislaus County include the territories of the Northern Valley Yokuts and the Plains and Sierra Miwok. Geographically, the Miwoks occupied the eastern edge of the County in the foothills, while the Yokuts lived in the valley, where the project site is located. While the project site is generally considered to be in Northern Valley Yokut territory, it is possible the area was used by the Chuguea, a transitional group between the Northern Valley Yokuts and the Sierra Me-Wuk (Davis-King and Associates 2017). It is estimated that the Yokut population ranged from 11,000 to 31,000 at the time of European contact. The population was concentrated along waterways and on the east side of the San Joaquin River. Settlements were typically composed of single-family dwellings, sweathouses, and ceremonial structures. Subsistence revolved around water resources in the San Joaquin Valley.

European presence in Stanislaus County began as early as 1806, when Lt. Gabriel Moraga and Father Pedro Munoz led 25 men from Mission San Juan Bautista to explore the Central Valley for suitable mission locations. No missions were founded in Stanislaus County. Between 1843 and 1846, Mexican governors established five land grants within the County. After the United States took possession of California and California was admitted into the Union, Stanislaus County was formed in 1854 from part of Tuolumne County.

Early settlement in Stanislaus County was focused on the foothills of the Sierra Nevada and on the three rivers in the area (San Joaquin, Stanislaus, and Tuolumne). Development on the valley floor in support of the agricultural industry was stimulated by the arrival of the Central Pacific Railroad. Railroads played a key role in the formation of the County's two largest cities, Modesto and Turlock, along with smaller towns. The implementation of new irrigation systems expanded opportunities for agricultural diversification in the County, and despite fluctuations during the 20<sup>th</sup> Century, agriculture remains a key element of the County's economy.

Cultural resources in Stanislaus County may be defined as significant by federal, State, or local authorities. In general, a resource that is listed or eligible for listing on the National Register of Historic Places (NHRP) or the California Register of Historical Resources (CRHR) is a significant cultural resource. The County General Plan Program EIR (Stanislaus County 2016a) prepared a list of historical resources in the County based on information in the NRHP and CRHR, as well as California State Landmarks and California Points of Historical Interest. The list indicated 32 such historical resources in the County. None of these are located in or near the project site.

Archaeological resources include Native American burial grounds, cemeteries, pottery, rock carvings, and rock paintings. Normally, such sites are often located near natural watercourses, springs or ponds, or on elevated grounds. Locations of known archaeological sites are kept confidential to protect these resources.

#### Paleontological Resources

The project site does not contain any known paleontological resources or unique geological features. Geological materials underlying the project site include the recent (Quaternary) sedimentary deposits of the Modesto Formation (Wagner et al. 1991). Numerous vertebrate fossil sites have been associated with the Modesto Formation in the Central Valley, including land mammals, birds, reptiles, and amphibians (California High Speed Rail Authority 2012). The Stanislaus County General Plan Draft EIR rates the "paleontological sensitivity" of the Modesto Formation as High (Stanislaus County 2016a).

Policy Twenty-Four of the Stanislaus County General Plan Conservation Element indicates County support of the preservation of paleontological resources. To implement this policy, the County will use the CEQA process to identify potential impacts on paleontological resources and to mitigate impacts (Stanislaus County 2016a).

## Environmental Impacts and Mitigation Measures

a) Historical Resources.

There are no buildings or other structures at the project site, including historic structures. The ASR indicates that neither the project APE nor the area within a half-mile radius contains historical resources. The bridge crossing TID Lateral No.1, constructed in 1921 and modified in 1955, was considered ineligible for inclusion in the National Register of Historic Places (Davis-King and Associates 2017). As a result, the project would have no impact on historical resources.

Level of Significance: No impact Mitigation Measures: None required

b) Archaeological Resources.

The ASR indicates that there are no known archaeological resources on the project site. No archaeological artifacts or features were noted. It is not expected that archaeological resources would be encountered, given the extensive disturbance of the area from agricultural activities and previous road and canal construction. Nevertheless, it is conceivable that excavation associated with the project could unearth archaeological materials of significance. Procedures to address such archaeological discoveries are set forth in the following mitigation measure.

Level of Significance: Potentially significant

Mitigation Measures:

CULT-2: If any subsurface cultural or paleontological resources are encountered during construction of the project, all construction activities in the vicinity of the encounter shall be halted until a qualified archaeologist, or paleontologist as appropriate, can examine these materials, make a determination of their significance and, if significant, recommend further mitigation measures that would reduce potential effects to a level that is less than significant. Such measures could include 1) preservation in place or 2) excavation, recovery and curation by qualified professionals. The County Public Works Department shall be responsible for retaining qualified professionals, implementing recommended mitigation measures and documenting mitigation efforts in a written report, consistent with the requirements of CEQA Guidelines Section 15064.5.

#### Significance After Mitigation: Less than significant

c) Paleontological Resources and Unique Geologic Features.

The project site is in predominantly flat land and contains no geologic features that may be considered unique. Since the Modesto Formation underlies the site, it is conceivable that excavation associated with the project could unearth paleontological materials of significance. Procedures to

address paleontological discoveries if they should occur are set forth in Mitigation Measure CULT-2 above. These would reduce any potential impacts to a level that is less than significant.

d) Human Burials.

It is not expected that any human burials would be uncovered at the project site, given its extensive disturbance. Nevertheless, it is conceivable that excavation associated with the project could uncover a previously unknown burial.

CEQA Guidelines Section 15064.5(e) describes the procedure to be followed when human remains are uncovered in a location outside a dedicated cemetery. All work in the vicinity of the find shall be halted and the County Coroner shall be notified to determine if an investigation of the death is required. If the County Coroner determines that the remains are Native American in origin, then the County Coroner must contact the Native American Heritage Commission within 24 hours. The Native American Heritage Commission shall identify the most likely descendants of the deceased Native American, and the most likely descendants may make recommendations on the disposition of the remains and any associated grave goods with appropriate dignity. If a most likely descendant cannot be identified, the descendant fails to make a recommendation, or the landowner rejects the recommendations of the most likely descendant, then the landowner shall rebury the remains and associated grave goods with appropriate dignity on the property in a location not subject to further disturbance.

Compliance with the provisions of CEQA Guidelines Section 15064.5(e) would ensure that impacts on any human remains encountered during project construction would be less than significant.

#### **GEOLOGY AND SOILS** 3.6

Would the project:

a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

ii) Strong seismic ground shaking?

iii) Seismic-related ground failure, including liquefaction?

iv) Landslides?

b) Result in substantial soil erosion or the loss of topsoil?

Potentially	Less Than
Significant	Significant
Impact	With
	Mitigation

Less Than No Impact Significant Impact

**Mitigation** Incorporated


c) Be located on strata or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code, creating substantial risks to life or property?

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

# NARRATIVE DISCUSSION

## **Environmental Setting**

#### **Project Site Soils**

The project site lies in the San Joaquin Valley in central California. The San Joaquin Valley is filled with thick sedimentary rock sequences that were deposited as much as 130 million years ago. Large alluvial fans have developed on each side of the Valley, with the larger and more gently sloping fans on the east side. The sediments that form the Valley floor were derived largely from erosion of the Sierra Nevada. The smaller and steeper slopes on the west side of the Valley overlie sedimentary rocks more closely related to the Coast Ranges. As noted in Section 3.5, Cultural Resources, the underlying geology of the project site is the Modesto Formation, consisting of Quaternary Period sediments.

Most of the soils located within the San Joaquin Valley consist of sand, silt, loamy clay alluvium, peat, and other organic sediments. These soils are the result of long-term natural soil deposition and the decomposition of marshland vegetation. According to the U.S. Department of Agriculture's Soil Survey of Eastern Stanislaus Area (USDA SCS 1964, USDA NRCS 2016), the main soil on the project site is Dinuba sandy loam. This imperfectly drained, nearly level soil is found in alluvial fans and was formed in alluvium derived from granitic rock. Permeability is moderate in this soil. Runoff is very slow, and the erosion hazard is slight.

#### Seismic and Geologic Hazards

The project site, along with the rest of Stanislaus County, is located in a seismically active region. Potential seismic hazards include ground rupture (also called surface faulting), ground shaking, liquefaction, and lateral spreading.

The project site is not included in an Alquist-Priolo Earthquake Fault Zone (California Geological Survey 2015), which designates areas where potential surface faulting may occur. Stanislaus County is subject to seismic shaking from fault features located in the east and west of the County, including the Diablo Range (Stanislaus County 2016b). Soil compaction and settlement can result from seismic groundshaking. If the sediments which compact during an earthquake are saturated, water from voids is forced to the ground surface, where it emerges in the form of mud spouts or sand boils – a process called liquefaction.

## Environmental Impacts and Mitigation Measures

a-1) Fault Rupture Hazards.

There are no active or potentially active faults located within or near the project site, nor is the project site within an Alquist-Priolo Earthquake Fault Zone. The project would have no impact related to fault rupture.

a-2, 3) Seismic Hazards.

The project site, along with the rest of the County, is subject to seismic shaking from fault features located to the east and west of the County. Improvements would incorporate engineering design features that would be in accordance with the adopted California Building Code, which contains design criteria for seismic shaking. Information in the Turlock Groundwater Basin Plan indicates that groundwater in the vicinity of the project site is 60 to 70 feet below ground surface as of the spring of 2005 (Turlock Groundwater Basin Association 2008). At this depth, the project site is unlikely to be susceptible to liquefaction. Seismic hazard impacts are considered less than significant.

a-4) Landslides.

The project site is in a topographically flat area, so landslides are unlikely to occur. The project would have no impact on this issue.

b) Soil Erosion.

Soils on the project site have a slight erosion hazard. Project construction activities would loosen soils within the construction area, leaving them exposed to potential water and wind erosion.

Compliance with SJVAPCD Regulation VIII, which is discussed in Section 3.3, Air Quality, would reduce potential erosion impacts. The project also would be required to comply with the provisions of the Construction General Permit, issued by the State Water Resources Control Board (SWRCB). The Construction General Permit is required for all projects that disturb one acre of land or more. The permit requirements include preparation of a Storm Water Pollution Prevention Plan (SWPPP) by a Qualified SWPPP Developer to address potential water quality issues. The SWPPP includes implementation of Best Management Practices to avoid or minimize adverse water quality impacts. Best Management Practices fall within the categories of Temporary Soil Stabilization, Temporary Sediment Control, Wind Erosion Control, Tracking Control, Non-Storm Water Management, and Waste Management and Materials Pollution Control. Only Best Management Practices applicable to the project would become part of the SWPPP.

Compliance with the Construction General Permit and SJVAPCD regulations would minimize the amount of soil erosion that may occur during construction at the project site. Soil erosion impacts would be less than significant.

c) Geologic Instability.

The soils underlying the project site have not been identified as inherently unstable or prone to failure. Existing facilities have not had an adverse effect on soil stability identified with it, and the project would not essentially change the intersection. Appropriate engineering design would avoid potential adverse effects. The project would have no impact on geologic stability.

d) Expansive Soils.

The Soil Survey of Eastern Stanislaus Area does not indicate if the Dinuba soil is an expansive soil. Expansive soils are associated with soils containing a high clay content. Dinuba soils have a clay content ranging generally from 12-15%, though one level can have clay content as high as 24%. Information from the California Soil Resource Laboratory of UC Davis indicates that Dinuba soils are "not limited" in their soil properties for the construction of local roads and streets (UC Davis 2017). Appropriate engineering design would avoid potential adverse effects. Project impacts related to expansive soils are considered less than significant.

e) Adequacy of Soils for Wastewater Disposal.

The project would not use, and does not propose to install, any septic systems. The project would have no impact related to this issue.

## 3.7 GREENHOUSE GAS EMISSIONS

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Potentially	Less Than	Less Than	No Impact
Significant	Significant	Significant	
Impact	With	Impact	
	Mitigation		
	Incorporated		

	$\checkmark$	

## NARRATIVE DISCUSSION

## **Environmental Setting**

#### GHG Background

Greenhouse gases (GHGs) are gases that absorb and emit radiation within the thermal infrared range, trapping heat in the earth's atmosphere. GHGs are both naturally occurring and are emitted by human activity. GHGs include carbon dioxide (CO<sub>2</sub>), the most abundant GHG, as well as methane, nitrous oxide and other gases. GHG emissions in California in 2014 were estimated at 441.5 million metric tons carbon dioxide equivalent (CO<sub>2</sub>e) – a decrease of 9.4% from the peak level in 2004. Major GHG sources in California include transportation (36%), industrial (21%), electric power (20%), commercial and residential (9%), and agriculture (8%) (ARB 2016).

Increased atmospheric concentrations of GHGs are considered a main contributor to global climate change, which is a subject of concern for the State of California. Potential impacts of global climate change in California include reduced Sierra Nevada snowpack, increased wildfire hazards, greater number of hot days with associated decreases in air quality, and potential decreases in agricultural production (Climate Action Team 2010). The Safety Element of the Stanislaus County General Plan identifies the following effects that would be experienced in the County as a result of climate change (Stanislaus County 2016b):

- Increased health risks for vulnerable populations during extended heat waves.
- Changes in insect vector populations due to warmer temperatures, and associated increase in human risk.
- Increased drought potential due to less reliable snowfall.
- Increased flood risk due to the expected increase in winter rains in relation to winter snow at higher elevations.
- Reduced carryover storage in multi-purpose reservoirs as a result of the need to maintain a larger flood control capacity later into the year.
- Extended wildfire season.

Unlike the criteria air pollutants described in Section 3.3, Air Quality, GHGs have no "attainment" standards established by the federal or State government. In fact, GHGs are not generally thought of as traditional air pollutants because their impacts are global in nature, while air pollutants mainly affect the general region of their release to the atmosphere (SJVAPCD 2015b). Nevertheless, the U.S. Environmental Protection Agency (EPA) has found that GHG emissions endanger both the public health and public welfare under Section 202(a) of the Clean Air Act due to their impacts associated with climate change (EPA 2009).

#### **GHG Emission Reduction Plans**

The State of California has implemented GHG emission reduction strategies through Assembly Bill (AB) 32, the Global Warming Solutions Act of 2006, which requires total statewide GHG emissions to reach 1990 levels by 2020, or an approximately 29% reduction from 2004 levels. In compliance with AB 32, the State adopted the Climate Change Scoping Plan in 2008, and updated the plan in 2014. Primary strategies addressed in the original Scoping Plan included new industrial and emission control technologies; alternative energy generation technologies; advanced energy conservation in lighting, heating, cooling and ventilation; fuels with reduced carbon content; hybrid and electric vehicles; and methods for improving vehicle mileage (ARB 2008). The 2014 update highlights California's progress toward meeting the 2020 GHG emission reduction goal of the original Scoping Plan, and it establishes a broad framework for continued emission reductions beyond 2020, on the path to 80% below 1990 levels by 2050 (ARB 2014). It should be noted that the 2050 reduction target has been set by executive order and has not been made State law.

In 2016, Senate Bill (SB) 32 became law. SB 32 sets a GHG emission reduction target for California of 40% below 1990 levels by 2030. The State has recently released a draft Scoping Plan for public review that sets forth strategies for achieving the SB 32 target. The draft Scoping Plan proposes to continue many of the programs that were part of the previous Scoping Plans, including the capand-trade program, low-carbon fuel standards, renewable energy, and methane reduction strategies. It integrates strategies to address climate change impacts from other state actions, such as the Short-Lived Climate Pollutant Reduction Strategy and the Sustainable Communities Strategies required by SB 375. It also addresses for the first time GHG emissions from the natural and working lands of California, including the agriculture and forestry sectors (ARB 2017). The public comment period on the draft Scoping Plan ended on April 10, 2017.

The SJVAPCD adopted a Climate Change Action Plan in 2008 and issued guidance for development project compliance with the plan in 2009. The guidance adopted an approach that relies on the use of Best Performance Standards to reduce GHG emissions. Projects implementing

Best Performance Standards would be determined to have a less than cumulatively significant impact. For projects not implementing Best Performance Standards, demonstration of a 29% reduction in project-specific (i.e., operational) GHG emissions from business-as-usual conditions is required to determine that a project would have a less than cumulatively significant impact (SJVAPCD 2009).

Stanislaus County has no GHG reduction plan, alternatively known as a Climate Action Plan. However, the Safety Element of the County General Plan contains a section on Climate Adaptation. This section discusses the potential impacts climate change would have on County communities and facilities. Essential facilities and utilities, disadvantaged unincorporated communities, and industrial or commercial businesses were identified as particularly vulnerable to adverse climate change impacts. Safety Element policies and implementation measures relating to efforts to improve flood control, reduce risks for future development, and improve the County's standard of living comprise the County's adaptation strategy, along with implementation of measures in the Multi-Jurisdictional Hazard Mitigation Plan (MJHMP). The MJHMP is discussed in Section 3.8, Hazards and Hazardous Materials.

## Environmental Impacts and Mitigation Measures

a, b) Project Emissions and Conflict with Plans.

Based on the results of the RCEM run (see Appendix A),  $CO_2$  emissions generated by project construction are estimated to be 430.5 tons. This amount is not considered substantial, as construction work would be limited to a short time period on the project site, and emissions from construction activities would cease once work is completed. Once work is completed, the project would not generate any direct GHG emissions.

Traffic going through the intersection would generate GHG emissions. As discussed in Section 3.3, Air Quality, the project would not increase vehicle capacity of the intersection or the roads leading into it. The project is intended to facilitate traffic flow through the intersection, thereby reducing the amount of GHGs generated by this flow. In addition, compliance with the SCS that was prepared as part of the Regional Transportation Plan is anticipated to further reduce GHG emissions from motor vehicles throughout Stanislaus County. Project impacts on GHG emissions would be less than significant, and the project would not conflict with the GHG reduction objectives of the State's Climate Change Scoping Plan and the SJVAPCD's Climate Change Action Plan.

#### HAZARDS AND HAZARDOUS MATERIALS 3.8

Would the project:	Significant Impact	Significant With Mitigation Incorporated
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?		
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?		
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?		
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?		V
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?		

f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?

g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

h) Expose people or structures to a significant risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?

Impact	With Mitigation Incorporated	Impact	
		V	

Less Than

Less Than

Significant

No Impact

 $\sqrt{}$ 

Potentially

# $\sqrt{}$ $\sqrt{}$ V $\sqrt{}$ $\sqrt{}$ $\sqrt{}$

#### NARRATIVE DISCUSSION

#### **Environmental Setting**

This section focuses on hazards associated with hazardous materials, proximity to airports, and wildfires. Geologic and soil hazards are addressed in Section 3.6, Geology and Soils, and potential flooding hazards are addressed in Section 3.9, Hydrology and Water Quality.

#### Hazardous Material Sites

Data on hazardous material sites are kept in the GeoTracker database, maintained by the SWRCB, and in the EnviroStor database, maintained by the California Department of Toxic Substances Control (DTSC). Both GeoTracker and EnviroStor provide the names and addresses of hazardous material sites, along with their cleanup status. A search of both databases indicated no record of active hazardous material sites (i.e., sites not cleaned up) in the vicinity of the project site (DTSC 2016, SWRCB 2016).

An Initial Site Assessment (ISA) of the project was conducted by Crawford and Associates, Inc. (2017). Appendix D contains a copy of the ISA. The ISA included a search of regulatory agency databases by Environmental Data Resources, Inc.; review of historical aerial photographs and topographic maps; review of federal, state, and county records for hazardous substance use and storage on or near the project site; and limited field reconnaissance. The purposes of the ISA was to identify any recognized environmental condition (REC), defined in ASTM E1527-13 as "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment." The ISA evaluated the following general hazardous materials or environmental concerns that are typical of similar projects:

- Asbestos-containing material
- Lead-based paint
- Chemically treated wood
- Thermoplastic traffic striping
- Naturally occurring asbestos
- Transformers
- Agricultural chemicals (pesticides/herbicides)
- Aerially deposited lead
- Petroleum hydrocarbons

#### Wildland Fires

Wildland fires are an annual hazard in Stanislaus County. Wildland fires burn natural vegetation on undeveloped lands and include rangeland, brush, and grass fires. High hazard areas for wildland fires are generally limited to the foothills on the east and west sides of the County (Stanislaus County 2016b). The project site is not within these areas.

#### County Plans and Policies

The Safety Element of the recently updated Stanislaus County General Plan identifies the significant safety hazards that may be encountered in the County, including the hazardous material and wildfire hazards discussed in this section, and sets forth policies designed to reduce risk of these hazards to County residents and properties. The County also has adopted a Multi-Jurisdictional Hazard Mitigation Plan (MJHMP), which contains detailed information on the various types of safety hazards and vulnerability of buildings, properties, and critical infrastructure, along with mitigation strategies to help reduce risk and prevent future losses. Five hazards were the focus of the MJHMP: earthquakes, landslides, flooding, dam failure, and wildfires. Chapter 6.0, Geology and Soils, evaluates earthquakes and landslide hazards associated with the project. Chapter 9.0, Hydrology and Water Quality, evaluates flooding and dam failure hazards.

## Environmental Impacts and Mitigation Measures

a) Hazardous Material Transport, Use and Storage.

Intersection operations do not require the use or storage of hazardous materials. The project would have no impact on this issue.

b) Release of Hazardous Materials.

Construction activities may involve the use of hazardous materials such as fuels and solvents, which may create a potential for hazardous material spills. Construction and maintenance vehicles would transport and use fuels in ordinary quantities. Fuel spills, if any occur, would be minimal and would not have significant adverse effects in the area. Contractors typically have absorbent materials at construction sites to clean up minor spills. Other substances used in the construction process would be stored in approved containers and used in relatively small quantities, in accordance with the manufacturers' recommendations and/or applicable regulations.

A natural gas pipeline operated by PG&E is located along Carpenter Road near the intersection. This pipeline may need to be relocated as part of project work. Even if relocation is not considered necessary, construction work could inadvertently damage the pipeline, releasing natural gas into the environment and creating a potential hazard to nearby residences and the Fairview Elementary School east of the site. The County Standards and Specifications require contractors to contact Underground Service Alert (USA) 48 hours prior to the proposed start of an excavation in order to locate any subsurface facilities at the construction site. Excavation cannot commence until a response is received from all known owners/operators of subsurface facilities that their installations have been located or that they do not operate a subsurface facility that would be affected by the excavation. The contractor shall be responsible for the preservation of, and any damage to, both private and public property. Compliance with the County Standards and Specifications would avoid potential impacts on the natural gas pipeline during project construction.

The project site is in a predominantly agricultural area, and soils in the area may have residual pesticide and herbicide contamination. It is possible that soils with residual chemicals would be disturbed during project construction, which could lead to a release. Potential exposure would be short-term, and adverse health effects occur with prolonged exposure. In addition, compliance with SJVAPCD Regulation VIII dust control measures would reduce the potential release and spread of any residual chemicals in soils. Overall, project impacts related to hazardous material releases are considered less than significant.

c) Hazardous Material Releases near Schools.

Fairview Elementary School is the nearest school to the project site. The school is located approximately one-half mile to the east, and the project would not emit hazardous materials of any type. The project would have no impact related to hazardous material releases near schools.

d) Hazardous Materials Sites.

None of the lists of hazardous materials sites compiled pursuant to Government Code Section 65962.5 contains the project site. As previously noted, a search of the GeoTracker and EnviroStor databases did not identify any active hazardous material sites in the vicinity. A list of solid waste disposal sites identified by SWRCB with waste constituents above hazardous waste levels outside the waste management unit did not show any locations in or near the project site (CalEPA 2016a); likewise, a list by SWRCB containing sites under Cease and Desist Orders and Cleanup and Abatement Orders showed no locations (CalEPA 2016b).

The ISA did not identify any current RECs at the project site. Clandestine drug laboratory waste may have been dumped in the vicinity of the intersection, but the last of these dumps was reported in 2005, and such dumps are considered historical RECs that are no longer likely to have an impact. Three properties in the project vicinity were identified on an underground storage tank site database for storage of gasoline or diesel, but none of these properties were likely to have affected the project site (Crawford and Associates 2017).

None of the following items of environmental concern were identified at the project site: chemically treated wood, naturally occurring asbestos, transformers, agricultural chemicals, aerially deposited lead, and petroleum hydrocarbon spills or releases. One potential item of concern was identified: the Carpenter Road bridge over TID Lateral No. 1. Concrete bridge structures, such as piers and abutments, and concrete pipes potentially could contain asbestos. Additionally, paint used on the bridge potentially could contain lead. Because of these circumstances, the bridge is considered a potential REC (Crawford and Associates 2017).

The ISA did not test the yellow traffic striping at the project site for heavy metal concentrations that may exceed hazardous waste thresholds established by the California Code of Regulations. Traffic striping may produce toxic fumes when heated (Crawford and Associates 2017).

In accordance with the recommendations of the ISA, mitigation described below would require the screening of the bridge for asbestos and lead and require remediation if asbestos is found and/or lead levels exceed applicable thresholds. Removal of traffic striping also shall be required. With implementation of these mitigation measures, project impacts related to hazardous material sites would be less than significant.

Level of Significance: Potentially significant

Mitigation Measures:

- HAZ-1: Prior to the start of project work on the bridge crossing TID Lateral No. 1, a Certified Asbestos Consultant shall assess the bridge for the presence of asbestos-containing materials, in accordance with National Emissions Standards for Hazardous Air Pollutants (NESHAP) asbestos regulations. The assessment shall include concrete structures and concrete pipes associated with the bridge. If the Certified Asbestos Consultant concludes that asbestoscontaining materials are present in the bridge, then these materials must be removed prior to demolition. Removal work shall be conducted by a contractor whose employees are properly trained and equipped for such work in accordance with California Occupational Safety and Health Administration regulations. The handling, transport and disposal of the asbestos-containing materials shall be conducted in accordance with California Environmental Protection Agency and NESHAP regulations. Regardless of the presence or absence of asbestos-containing materials in the bridge, the SJVAPCD shall be notified of any demolition or renovation work on the bridge at least ten (10) business days prior to the start of such work.
- HAZ-2: Prior to the start of project work on the bridge crossing TID Lateral No. 1, samples of paint from the bridge shall be taken and tested for lead. If the lead found in any of the paint samples exceeds the federal and state toxicity thresholds for lead, then the paint shall be removed and disposed of in accordance with Caltrans Standard Special Provision 14.11-13, Disturbance of Existing Paint Systems on Bridges.

HAZ-3: Prior to the start of project construction, the traffic striping on the project site shall be tested for the presence of heavy metals that exceed hazardous waste thresholds established by the California Code of Regulations. If heavy metals that exceed concentrations established by the California Code of Regulations are found, then the contractor shall treat the traffic striping and hazardous waste and dispose of it at a Class 1 disposal facility. Alternatively, the contractor may choose to treat the traffic striping as hazardous waste without testing and dispose of the striping at a Class 1 disposal facility if the volume of striping material is low.

#### Significance After Mitigation: Less than significant

e, f) Airport and Airstrip Operations.

A review of aerial photographs in Google Earth revealed no public use airports or private airstrips within two miles of the project site. The project would have no impact on this issue.

g) Emergency Response and Evacuation.

Both Carpenter Road and Whitmore Avenue are roads that can be used by emergency vehicles and may be potential evacuation routes for residents of Modesto and other areas. The project would improve traffic flow and increase safety at the intersection, which would improve the ability of emergency agencies to respond to calls and would expedite evacuations should they be necessary.

Project construction could disrupt traffic at the intersection, thereby slowing emergency vehicle response times and evacuations. In addition, as noted in Chapter 2.0, Project Description, work at the TID canal crossing would require closure of the southbound Carpenter Road approach to the intersection. Construction work would be of temporary duration; nevertheless, impacts on emergency vehicle access and evacuation routes are considered potentially significant, particularly the closure of one of the approaches. Mitigation presented below would ensure that access would be maintained during construction at the crossings, thereby reducing impacts to a level that would be less than significant.

#### Level of Significance: Potentially significant

Mitigation Measures:

HAZ-4: Prior to the start of project construction along roadways, the contractor shall develop and implement a detour plan for the southbound Carpenter Road approach to the intersection, and a Traffic Control Plan for the other three approaches. Both plans shall include such items as traffic control requirements, resident notification of access closure, and daily access restoration. The contractor shall specify dates and times of road closures or restrictions, if any, and shall ensure that adequate access will be provided for emergency vehicles. The plans shall be coordinated with the Stanislaus County Sheriff's Department, the Westport Fire Protection District, the Burbank Paradise Fire District, and the Industrial Fire Protection District, as appropriate, if construction will require road closures or lane restrictions.

Significance After Mitigation: Less than significant

h) Wildland Fire Hazards.

The project site is not located in a region susceptible to wildfires. The land in the area is agricultural, which has a low wildfire potential. The project would have no impact on this issue.

## 3.9 HYDROLOGY AND WATER QUALITY

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements?				
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?				V
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?			V	
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?			V	
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems?				
f) Otherwise substantially degrade water quality?				
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?				
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?				
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of a levee or dam?				
j) Inundation by seiche, tsunami, or mudflow?				

## NARRATIVE DISCUSSION

## **Environmental Setting**

#### Surface Waters

The project site is located approximately one-half mile south of the Tuolumne River. There is also TID Lateral No. 1, which crosses Carpenter Road north of the intersection, then runs parallel to the north side of Whitmore Avenue west of the intersection. The project site is essentially flat; based on this observation, there is no drainage pattern for surface runoff, except that TID Lateral No. 1 obstructs drainage towards the north side of Whitmore Avenue west of the intersection.

Surface water quality in the valley and Delta regions is managed by the Central Valley Regional Water Quality Control Board (RWQCB) by means of The Water Quality Control Plan for the Sacramento River and San Joaquin River Basins (Basin Plan), revised in June 2015. The beneficial uses of surface waters in the region include municipal and domestic water supply; industrial service and process supply; agricultural irrigation; groundwater recharge; navigation; contact and non-contact recreation; commercial and sport fishing; migration of aquatic organisms; wildlife habitat; and habitat for rare, threatened, and endangered species (RWQCB 2015).

#### Groundwater

The project site is located within the Turlock Groundwater Basin. Groundwater in the area generally flows towards the Tuolumne River (Turlock Groundwater Basin Association 2008). As noted in Section 3.6, Geology and Soils, groundwater levels at the project site are 60 to 70 feet below ground surface.

#### Flooding Hazard

According to a Flood Insurance Rate Map prepared by the Federal Emergency Management Agency (FEMA), most of the project site lies outside a classified flood zone. Areas north and east of the project site are in Zone X, which denotes areas subject to a 500-year flood (FEMA 2008). According to the County's MJHMP, the project site and vicinity do not appear to be subject to inundation from potential dam failure (Stanislaus County OES 2010).

#### **Environmental Impacts and Mitigation Measures**

#### a, f) Surface Waters.

Project construction activities would not occur in any natural streams or bodies of water. The project proposes to replace the existing bridge over TID Lateral No. 1 on Carpenter Road with a box culvert. Such work would require approval from TID, which would likely attach conditions to its approval that would ensure its water would remain suitable for irrigation use.

Ground disturbance from construction activities could loosen soils and allow them to be carried off-site by precipitation. As described in Section 3.6, Geology and Soils, the project would be required to obtain a Construction General Permit that includes conditions for a SWPPP and the implementation of Best Management Practices to control erosion. Project impacts would be less than significant.

#### b) Groundwater Supplies.

The project is the improvement of an intersection. It would not require the use of groundwater, and it would not substantially interfere with the existing recharge capacity of the area, even with the added pavement. The project would have no impact on this issue.

c, d) Drainage Patterns.

Project work generally would take place within existing rights-of-way, with some additional rightof-way to be acquired adjacent to the roadways. No significant alterations to the landscape that might affect existing drainage patterns would occur. Project impacts on drainage are considered less than significant.

e) Runoff.

While the project may add some impervious surface, the amount of additional runoff that would be generated would be minimal and would not lead to increased off-site flooding. The project proposes to install drainage facilities that would accommodate any additional runoff. Project impacts would be less than significant.

g, h) Flooding Hazards.

The project is outside a designated 100-year floodplain, and no structures would be installed that could impede or redirect flood flows. The project would have no impact related to flooding.

i) Dam and Levee Failure Hazards.

The project site is not located within an identified dam inundation area. There are levees along the Tuolumne River, and a breach of the levee on the south bank could potentially flood the project site. The project site is outside the 100-year floodplain, as previously noted, and it is mostly out of the 500-year floodplain. The project would not construct housing or other habitable structures that would be subject to the risk of levee breach. Project impacts are considered less than significant.

j) Seiche, Tsunami and Mudflow Hazards.

The project is located in a topographically flat area away from large bodies of water, so the project would not experience seiche, tsunami or mudflow hazards. The project would have no impact on this issue.

#### 3.10 LAND USE AND PLANNING

Would the project:

a) Physically divide an established community?

b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?

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c) Conflict with any applicable habitat conservation plan or natural communities conservation plan?

## NARRATIVE DISCUSSION

## **Environmental Setting**

As previously noted, the project site is located in an area where land use is predominantly agricultural, with a few scattered rural residences and Fairview Elementary School approximately one-half mile to the east. Current zoning for most of the project site vicinity is A-2-40 Agriculture, but the northeast corner of the intersection is zoned A-2-10 Agriculture.

The Stanislaus County General Plan, an update of which was adopted in 2016 (Stanislaus County 2016b), has designated most of the area adjacent to the project site as Agriculture, but the northeast corner of the intersection is designated Urban Transition. Urban Transition is applied to lands outside a city's incorporated boundaries but inside its General Plan boundary. The northeast corner is within the General Plan boundaries of the City of Modesto. The purpose of the Urban Transition designation is to ensure that land remains in agricultural usage until urban development consistent with a city's General Plan designation is approved. The Modesto General Plan has designated the northeast corner as Village Residential, but the City of Modesto has not annexed this area, and no development of the area is planned at this time.

## Environmental Impacts and Mitigation Measures

a) Division of Established Community.

The project is located in a rural agricultural area. There are no established communities in the vicinity. The project would have no impact on this issue.

b) Conflict with Applicable Plans, Policies and Regulations.

The project proposes to acquire rights-of-way from adjacent lands used in agricultural production. As discussed in Section 3.2, Agriculture and Forestry Resources, the County's General Plan has an Agricultural Element that sets forth policies and implementation measures designed to conserve agricultural lands. Public roads are an allowed use in agricultural zones. Potential environmental impacts would be avoided by compliance with applicable regulations or by implementation of mitigation measures specified in this document. Project impacts would be less than significant.

c) Conflict with Habitat Conservation Plans.

As discussed in Section 3.4, Biological Resources, there are no habitat conservation plans applicable to the project site. The project would have no impact on this issue.

#### 3.11 MINERAL RESOURCES

Would the project:

a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact

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## NARRATIVE DISCUSSION

#### **Environmental Setting**

The mineral resource development potential of lands in the counties is classified by the State Geologist into Mineral Resource Zones (MRZs), in accordance with the California Mineral Land Classification System. The classifications include:

MRZ-1 Areas of No Mineral Resource Significance

MRZ-2 Areas of Identified Mineral Resource Significance

MRZ-3 Areas of Undetermined Mineral Resource Significance

MRZ-4 Areas of Unknown Mineral Resource Significance

The lands on and near the project site are not classified as being within a MRZ, indicating that no significant mineral deposits have been identified (Stanislaus County 2016b). There are no identified oil or natural gas fields in the project vicinity (California Department of Conservation DOGGR 2001).

#### **Environmental Impacts and Mitigation Measures**

a, b) Loss of Mineral Resource Availability.

Since there are no identified mineral resources areas at the project site, the project would have no effect on the availability of or access to locally designated or known mineral resources. The project would have no impact on this issue.

## 3.12 NOISE

Would the project result in:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?				
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?				
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?				
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?		$\checkmark$		
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				V

f) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?

## NARRATIVE DISCUSSION

#### **Environmental Setting**

#### Noise Background

Noise is often described as unwanted sound. Sound is any pressure variation in air that the human ear can detect. To provide a manageable way to measure sound, the decibel (dB) scale was devised. The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by the A-weighting network. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives noise.

Community noise is commonly described in terms of the "ambient" noise level - the allencompassing noise level associated with a given noise environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (Leq), which corresponds to a steady-state, A-weighted sound level containing the same total energy as a time-varying signal

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over a given time period, usually one hour. The  $L_{eq}$  shows very good correlation with community response to noise.

#### Existing Noise Conditions and Noise Regulations

The project site is adjacent to primarily agricultural land uses. The existing ambient noise environment at the project site is defined primarily by traffic on the local surface roadways, with some noise from seasonal agricultural operations. No specific noise data are available for the project vicinity.

Chapter 10.46 of the Stanislaus County Code establishes noise standards applicable to projects. Exterior noise levels at residences shall not exceed the maximum sound level of 50 dBA during the daytime and 45 dBA during the nighttime. For noise-sensitive uses such as schools, the daytime exterior noise level shall be no greater than 45 dBA. In addition, no person shall operate any construction equipment so as to cause at or beyond the property line of any property upon which a dwelling unit is located an average sound level greater than 75 dB between the hours of 7:00 p.m. and 7:00 a.m.

#### Groundborne Vibrations

Groundborne vibration is not a common environmental problem. Sources of groundborne vibration include trains, buses on rough roads, and construction activities such as blasting, pile-driving and operating heavy earth-moving equipment.

Stanislaus County Code Chapter 10.46 prohibits the operation of any device that creates vibration that is above the "vibration perception threshold" of any individual at or beyond the property boundary of the source if on private property, or at 150 feet from the source if on a public space or public right-of-way. "Vibration perception threshold" is defined in the County Code as the minimum ground-borne or structure-borne vibration motion necessary to cause a reasonable person to be aware of the vibration by such direct means as, but not limited to, sensation by touch or visual observation of moving objects, or a measured motion velocity of 0.01 inches per second over the range of 1-100 Hertz.

#### Environmental Impacts and Mitigation Measures

a) Exposure to Noise Exceeding Local Standards.

Noise-sensitive land uses in the project vicinity include existing rural residences and Fairview Elementary School. As previously noted, the school is approximately one-half mile away, yet construction activities may expose the school to significant short-term noise impacts. Construction is also proposed near some of the residences, including one adjacent to Carpenter Road south of the intersection. This residence in particular may be exposed to elevated noise levels resulting from project construction.

Grading, earthmoving and excavation would be the main construction activities, so equipment likely to be used would include dozers and excavators. Based on the equipment anticipated to be used, construction of proposed facilities and improvement may generate maximum noise levels ranging from 78 to 81 dBA at a reference distance of 50 feet (FHWA 2006). Noise essentially decreases by 6 dBA with every doubling of distance from a source (Harris 1991). For example, if the noise from an industrial engine is 81 dBA at 50 feet, the noise at 100 feet would be 75 dBA, and at 200 feet would be 69 dBA. At 600 feet, the noise level would be approximately 60 dBA, which is above County standards for residential exterior noise levels. At one-half mile, the noise

level would be approximately 47 dBA, which is just above County standards for noise-sensitive exterior noise levels.

Construction noise is a short-term occurrence that does not result in significant or long-term effects, provided that sleep interruption is not involved. Construction activities would be limited to the hours of 7:00 a.m. to 7:00 p.m., per County Code Chapter 10.46. Nevertheless, residences and the school near the project site may be exposed to construction noise levels above County standards, which is considered a significant impact. Mitigation described below would reduce noise from construction equipment to levels considered less than significant.

Level of Significance: Potentially significant

Mitigation Measures:

NOISE-1: All equipment used on the construction site shall be fitted with mufflers in accordance with manufacturers' specifications. Mufflers shall be installed on the equipment at all times on the construction site.

Significance After Mitigation: Less than significant

b) Groundborne Vibrations.

The project would likely use excavation and trenching equipment during construction, which could generate some groundborne vibrations. Given the short-term duration of construction work plus the distance of potentially sensitive land uses from the project site, project impacts related to groundborne vibrations are considered less than significant.

c) Permanent Increase in Ambient Noise.

Noise levels at the intersection are determined by traffic volumes. These volumes are not expected to change as a result of the project, since the project would not add vehicle capacity. The project would have no impact on permanent ambient noise levels.

d) Temporary or Periodic Increase in Ambient Noise.

The project would generate a temporary increase in ambient noise from construction activities. Mitigation Measure NOISE-1, described in a) above, would reduce construction noise impacts to levels that would be less than significant.

e, f) Exposure to Aircraft/Airstrip Noise.

As noted in Section 3.8, Hazards and Hazardous Materials, there are no public airports or private airstrips in the vicinity. The project would have no impact on this issue.

## 3.13 POPULATION AND HOUSING

Would the project:

a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?

c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
	Incorporated		

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#### NARRATIVE DISCUSSION

#### **Environmental Setting**

As of January 1, 2017, the population of Stanislaus County was estimated at 548,057, of which 114,891 resided in the unincorporated area (California Department of Finance 2017). Stanislaus County had an estimated 180,777 housing units in 2017, of which 36,327 were located in the unincorporated area. Single-family detached units (typical houses) accounted for approximately 74.6% of total housing units in the County, but approximately 81.5% of housing units in the unincorporated County (California Department of Finance 2017).

#### Environmental Impacts and Mitigation Measures

a) Population Growth Inducement.

The project would not directly induce population growth, as no housing or employment centers would be constructed. The project would improve an existing intersection without increasing vehicle capacity. Because of this, the project is not expected to indirectly induce population growth. The project would have no impact on this issue.

b, c) Displacement of Housing and People.

There is no housing on the project site, so the project would not displace housing or people. The project would have no impact on this issue.

## 3.14 PUBLIC SERVICES

Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:

- a) Fire protection?
- b) Police protection?
- c) Schools?
- d) Parks?
- e) Other public facilities?

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
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			$\checkmark$

## NARRATIVE DISCUSSION

#### Environmental Setting

Fire protection services for the project site are provided by three agencies. The area south of Whitmore Avenue is served by the Westport Fire Protection District, which maintains a station at 5160 South Carpenter Road. The northwest corner of the intersection is served by the Burbank Paradise Fire District, based at 1313 Beverly Drive in Modesto. The northeast corner of the intersection is served by the Industrial Fire Protection District, based at 148 Imperial Avenue in Modesto.

Law enforcement services are provided by the Stanislaus County Sheriff's Department, with its main station in Modesto. The project site is within the boundaries of Modesto City Schools, which provide educational services from kindergarten to 12<sup>th</sup> grade. The Stanislaus County Parks and Recreation Department provides park and recreational services to unincorporated Stanislaus County. There are no County parks in the immediate vicinity of the project site.

#### Environmental Impacts and Mitigation Measures

#### a) Fire Protection.

The project is the signalization and improvement of an existing intersection. As discussed in Section 3.13, Population and Housing, the project would not create additional housing nor generate population growth. Because of this, it would not create additional demand for fire protection services. No new or expanded fire protection facilities that could have environmental impacts would be required. The project would have no impact on this issue.

b) Police Protection.

The project would not create additional demand for police protection services. No new or expanded police protection facilities that could have environmental impacts would be required. The project would have no impact on this issue.

c) Schools.

The project would not create additional demand for school services. No new or expanded school facilities that could have environmental impacts would be required. The project would have no impact on this issue.

d, e) Parks and Other Public Facilities.

The project would not create additional demand for parks or other public facilities. No new or expanded facilities that could have environmental impacts would be required. The project would have no impact on this issue.

## 3.15 RECREATION

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Less Than No Impact Significant Impact

Mitigation Incorporated

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a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

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## NARRATIVE DISCUSSION

#### Environmental Setting

Issues associated with parks and recreation were discussed in Section 3.14, Public Services. There are no County parks or other recreational facilities in the immediate vicinity of the project site. The nearest recreational facility is Rancho Encantado Park, a neighborhood park managed by the City of Modesto that is approximately 0.60 miles northeast of the project site.

## **Environmental Impacts and Mitigation Measures**

a, b) Recreational Facilities.

The project is the signalization and improvement of an existing intersection. As discussed in Section 3.13, Population and Housing, the project would not construct additional housing nor generate population growth. Because of this, it would not create additional demand for recreational

facilities. No new or expanded facilities that could have environmental impacts would be required. The project would have no impact on this issue.

## 3.16 TRANSPORTATION/TRAFFIC

Would the project:

a) Conflict with an applicable plan, ordinance or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?

b) Conflict with an applicable congestion management program, including but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?

c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?

d) Substantially increase hazards to a design feature (e g., sharp curves or dangerous intersections) or incompatible uses (e g, farm equipment)?

e) Result in inadequate emergency access?

f) Conflict with adopted policies, plans or programs regarding public transit, bicycle or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?

## NARRATIVE DISCUSSION

## **Environmental Setting**

The project site is located at the intersection of Carpenter Road and Whitmore Avenue. As previously described, both roads are two-lane roads in the project vicinity, and there are currently no turn pockets at the intersection. Whitmore Avenue connects with State Route 99 to the east, while Carpenter Road connects with State Route 99 to the north in Modesto. State Route 99 is a major north-south freeway, connecting with Stockton and Sacramento to the north and Fresno and Bakersfield to the south. Based on data from the project engineer, the average annual daily traffic (AADT) at the Carpenter/Whitmore intersection in 2010 was 15,121.

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Less Than No Impact Significant Impact

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Modesto Area Express (MAX) is the main provider of public transit service in the Modesto area. Stanislaus Regional Transit (StaRT) is the primary provider of public transit service to unincorporated Stanislaus County. Neither system has a route that runs through the project site. There are no designated bikeways or sidewalks in the project vicinity.

The Circulation Element of the Stanislaus County General Plan (Stanislaus County 2016b) sets forth policies and implementation measures related to transportation in the County. Implementation Measure 1 of Policy Two of the Circulation Element states that the County shall maintain a daily LOS D or better for all County roadways and a peak hour LOS of C or better intersections, except within a sphere of influence of a city in which the city has adopted a lower LOS standard. LOS is a measure of traffic flow on roadways and traffic delays at intersections using a scale from A to F, with A representing the best traffic flow or shortest intersection delays and F representing the worst traffic flow or longest intersection delays. According to data from the project engineer, the Carpenter/Whitmore intersection experienced LOS C conditions in 2010.

## **Environmental Impacts and Mitigation Measures**

a) Conflict with Transportation Plans, Ordinances and Policies.

The project is the signalization and improvement of an existing intersection. It would generate some traffic during construction activities, but that traffic would cease upon completion of repair work. The project would have no impact on traffic conditions on roads in the vicinity, as it would not increase vehicle capacity.

According to the project engineer, AADT at the intersection in 2038 would be 23,179. Traffic flow is expected to improve at the intersection as a result of the project, and delays at the intersections are expected to decrease, so the intersection is expected to maintain at least the minimum acceptable peak hour LOS of C. Without the project, the Carpenter/Whitmore intersection would experience LOS F conditions, the worst condition for traffic.

The Circulation Element of the County General Plan designates Carpenter Road north of Whitmore Avenue as a Principal Arterial and south of Whitmore as a Minor Arterial. Whitmore Avenue east of Carpenter Road is also designated as a Minor Arterial, while it is designated as a local road west of Carpenter. The project would not interfere with future improvement of these roads in accordance with their General Plan designations. Project impacts on applicable plans, ordinances and policies related to traffic would be less than significant.

b) Conflict with Congestion Management Program.

StanCOG adopted its Congestion Management Process in 2010. The Congestion Management Process is designed to improve multimodal mobility and to avoid the creation of transportation deficiencies on a designated road network. The Congestion Management Process proposes to widen both Carpenter Road and Whitmore Avenue at the intersection. The project would not obstruct any planned widening of these roads. It would further the objectives of the Congestion Management Process, as well as the CMAQ Program (see Chapter 2.0, Project Description), by improving traffic operations at the intersection. Project impacts would be less than significant.

c) Air Traffic Patterns.

As discussed in in Section 3.8, Hazards and Hazardous Materials, there are no public airports in the vicinity. The project would not lead to an increase in air traffic levels, as it is an improvement to an existing intersection and would not generate additional air passengers. The project would have no impact on this issue.

#### d) Traffic Hazards.

The project proposes the installation of a traffic signal at the intersection, along with a left-turn pocket on each of the approaches. These features would improve traffic flow and safety. The project would have a beneficial impact by reducing traffic hazards associated with existing intersection conditions.

Existing traffic likely includes farm equipment that travels to nearby agricultural fields. The farm equipment may be incompatible with regular vehicle traffic. The project would not change the vehicle mix, but the project features described above likely would reduce the potential hazards associated with the presence of farm equipment in the traffic flow.

Potential adverse hazards would involve only the presence of equipment and workers during project construction, and this would be a temporary hazard that would be removed once construction work is completed. Overall, project impacts related to traffic hazards are considered less than significant.

e) Emergency Access.

The project would retain existing access to adjacent land uses for emergency vehicles by maintaining the existing access to TID facilities to the west and by grading of access to existing driveways that connect to the project site. The project would have a temporary impact on emergency vehicle travel during construction, as discussed in Section 3.8, Hazards and Hazardous Materials. Implementation of Mitigation Measure HAZ-4 would reduce potential impacts to a level that would be less than significant.

f) Conflict with Non-Vehicular Transportation Plans.

There is no public transit service at the project site, and there are no bikeways or sidewalks. StanCOG adopted a Non-Motorized Transportation Plan in 2013 that proposes a bike path along TID Lateral No. 1, a bike lane along Whitmore Avenue, a bike lane along Carpenter Road north of the intersection, and a bike route with Share the Road signs along Carpenter Road south of the intersection (StanCOG 2013). The project would not interfere with installation of the bikeways should the County proceed with the proposed improvements. Project impacts would be less than significant.

## 3.17 TRIBAL CULTURAL RESOURCES

Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

a) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or

-	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
			V	

b) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1? In applying the criteria set forth in subdivision (c) of Public Resources Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

## NARRATIVE DISCUSSION

## **Environmental Setting**

In 2015, the State Legislature enacted AB 52, which focuses on consultation with Native American tribes on land use issues potentially affecting the tribes. The intent of this consultation is to avoid or mitigate potential impacts on "tribal cultural resources," which are defined as "sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe." More specifically, Public Resources Code Section 21074 defines tribal cultural resources as:

- Sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are included or determined to be eligible for inclusion in the California Register of Historical Resources, or included in a local register of historical resources; or
- A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1 [i.e., eligible for inclusion in the California Register of Historical Resources].

Under AB 52, when a tribe requests consultation with a CEQA lead agency on projects within its traditionally and culturally affiliated geographical area, the lead agency must provide the tribe with notice of a proposed project within 14 days of a project application being deemed complete or when the lead agency decides to undertake the project if it is the agency's own project. The tribe has up to 30 days to respond to the notice and request consultation; if consultation is requested, then the local agency has up to 30 days to initiate consultation.

In 2016, the Governor's Office of Planning and Research updated Appendix G of the CEQA Guidelines to include sample questions specifically addressing tribal cultural resources. These questions have been incorporated within this IS/MND.

As previously noted, the project site is located within the traditional territory of the Northern Valley Yokuts at the time of initial contact with European Americans. Section 3.5, Cultural Resources, discusses the Yokuts in more detail. The Chuguea may also have occupied the land in the vicinity of the project site.

## **Environmental Impacts and Mitigation Measures**

a, b) Tribal Cultural Resources.

As noted in Section 3.5, Cultural Resources, no archaeological resources are known to exist within the project site. The Native American Heritage Commission conducted a search of its Sacred Lands file and found no records of sacred lands within a half-mile radius of the project site.

The Native American Heritage Commission identified three tribes who may have knowledge of resources at the project site and who were subsequently contacted: Southern Sierra Miwok Nation, North Valley (Nototumne) Yokuts, and the Amah Mutsun Tribal Band. In addition to these tribes, the Tule River Indian Tribe was contacted. Contact was made through letters and submittal of a copy of the ASR, with follow-up by telephone. None of the tribes contacted raised any concerns about any impacts on tribal cultural resources by the project (Davis-King and Associates 2017).

Based on the information from the ASR and the results of contacts with Native American tribes, the project is unlikely to affect tribal cultural resources as defined by AB 52. No tribe has requested consultation on the project in accordance with the provisions of AB 52. Project impacts are considered less than significant.

## 3.18 UTILITIES AND SERVICE SYSTEMS

Would the project:	Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?				
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
c) Require or result in the construction of new stormwater drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?				
d) Are sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?				V
e) Has the wastewater treatment provider which serves or may serve the project determined that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				
f) Is the project served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?				

g) Comply with federal, state and local statutes and regulations related to solid waste?

## NARRATIVE DISCUSSION

#### **Environmental Setting**

The project site is located in a predominantly rural agricultural area, where water is typically provided by domestic wells and wastewater is typically collected in individual septic systems. The City of Modesto provides water and wastewater services for the urbanized areas north of Whitmore Avenue. There are no storm drainage facilities at the project site; runoff drains to the sides of the road and percolates into the soil.

In the unincorporated area of Stanislaus County in which the project is located, solid waste is collected by Bertolotti Disposal. Solid waste collected in Stanislaus County is disposed at the County-owned Fink Road Landfill near the community of Crows Landing.

Electrical service in the vicinity is provided by TID. Utility poles that carry electrical lines are currently located in the area. Electricity for the traffic signal can be provided with no extension of existing TID transmission or distribution lines. There is a natural gas pipeline owned by PG&E in the project vicinity. Section 3.8, Hazards and Hazardous Materials, discusses potential impacts related to this pipeline.

## **Environmental Impacts and Mitigation Measures**

a, b, e) Wastewater Systems.

The project is the signalization and improvement of an existing intersection. As discussed in Section 3.13, Population and Housing, the project would not create additional housing nor generate population growth. Because of this, it would not generate a demand for wastewater collection and treatment services. The project would have no impact on this issue.

b, d) Water Systems and Supplies.

The project would not generate a demand for water services nor place a demand on water supplies. The project would have no impact on this issue.

c) Stormwater Systems.

As discussed in Section 3.9, Hydrology and Water Quality, the project is not expected to generate runoff such that it would increase off-site flooding. The project proposes to install drainage facilities that would accommodate any additional runoff. Project impacts are considered less than significant.

f, g) Solid Waste Services.

The project would not generate a demand for solid waste collection services nor place a demand on landfill capacity. The project would have no impact on this issue.
# 3.19 MANDATORY FINDINGS OF SIGNIFICANCE

Potentially Significant Impact	Less Than Significant With Mitigation Incorporated	Less Than Significant Impact	No Impact
	Incorporated		

a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

b) Does the project have impacts that are individually limited, but cumulatively considerable? "Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

c) Does the project have environmental effects which would cause substantial adverse effects on human beings, either directly or indirectly?

# NARRATIVE DISCUSSION

a) Findings on Biological and Cultural Resources.

The project's potential biological and cultural resource impacts were described in Sections 3.4 and 3.5, respectively. Potentially significant environmental effects were identified in these issue areas, but all of the potentially significant effects would be reduced to a level that is less than significant with mitigation measures that would be incorporated into the project.

b) Findings on Individually Limited but Cumulatively Considerable Impacts.

As described in this Initial Study, most of the potential environmental effects of the project would either be less than significant, or the project would have no impact at all, when compared to the baseline. Potentially significant impacts identified with the project would be reduced to a level that is less than significant with proposed mitigation measures and compliance with required permits and applicable regulations.

The potential environmental effects identified in this Initial Study have been considered in conjunction with each other as to their potential to generate other potentially significant effects. The various potential environmental effects of the project would not combine to generate any potentially significant cumulative effects.

The County is proposing similar improvements at three other rural intersections. All of these intersections propose the acquisition of additional right-of-way that would include agricultural lands. As discussed in Section 3.2, Agriculture and Forestry Resources, Stanislaus County gained

Important Farmland acreage from 2004 to 2014, even while it lost Prime Farmland acreage. The project would result in a minimal loss of agricultural land in an area that has gained Important Farmland overall. The effects of the loss of Prime Farmland resulting from the project would not be cumulatively considerable. No other potential impacts that could be cumulatively considerable were identified.

c) Findings on Adverse Effects on Human Beings.

Potential adverse effects on human beings were discussed in Section 3.6, Geology and Soils (seismic hazards); Section 3.8, Hazards and Hazardous Materials; Section 3.9, Hydrology and Water Quality (flooding); and Section 3.16, Transportation/Traffic (traffic hazards). No potential adverse effects on human beings were identified in these sections, other than potential exposure to hazardous materials during project construction. Mitigation measures would reduce potentially significant adverse effects to a level that would be less than significant, and no hazardous materials would be at the site once project construction is completed. The project is intended to improve traffic safety at the intersection, which would have a beneficial impact.

# 4.0 REFERENCES

## 4.1 DOCUMENT PREPARERS

This IS/MND was prepared by BaseCamp Environmental, Inc. for use by and under the supervision of the Stanislaus County Public Works Department. The following persons were involved in preparation of the IS/MND:

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# 4.4 PERSONS CONSULTED

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# **APPENDICES**

# PUBLIC REVIEW DRAFT INITIAL STUDY/ MITIGATED NEGATIVE DECLARATION

FOR THE

# CARPENTER ROAD/WHITMORE AVENUE INTERSECTION SIGNALIZATION PROJECT

Stanislaus County, CA

October 11, 2017

Prepared for:

Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358 209-525-4130

Prepared by:

BaseCamp Environmental, Inc. 115 S. School Street, Suite 14 Lodi, CA 95240 209-224-8213



# APPENDIX A AIR QUALITY MODELING



#### Road Construction Emissions Model, Version 7.1.5.1

Emission Estimates for -> (	Carpenter?Whitmore			Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (Ibs/day)	NOx (Ibs/day)	PM10 (Ibs/day)	PM10 (Ibs/day)	PM10 (lbs/day)	PM2.5 (Ibs/day)	PM2.5 (lbs/day)	PM2.5 (Ibs/day)	CO2 (Ibs/day)
Grubbing/Land Clearing	1.9	13.6	17.9	1.2	0.8	0.4	0.8	0.7	0.1	2,675.5
Grading/Excavation	8.7	52.3	86.8	4.7	4.3	0.4	4.0	3.9	0.1	10,954.6
Drainage/Utilities/Sub-Grade	5.2	31.2	45.9	3.0	2.6	0.4	2.5	2.4	0.1	6,130.3
Paving	2.6	17.4	21.5	1.4	1.4	-	1.3	1.3	-	3,232.1
Maximum (pounds/day)	8.7	52.3	86.8	4.7	4.3	0.4	4.0	3.9	0.1	10,954.6
Total (tons/construction project)	0.4	2.4	3.7	0.2	0.2	0.0	0.2	0.2	0.0	480.5
Notes: Project Start Year ->	2018									
Project Length (months) ->	6									
Total Project Area (acres) ->	6									
Maximum Area Disturbed/Day (acres) ->	0									
Total Soil Imported/Exported (yd3/day)->	0									
Emission Estimates for -> (	Carpenter?Whitmore			Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust	002 (here/dea)
	ROG (kgs/day)	CO (Kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM2.5 (kgs/day)	PM2.5 (Kgs/day)	PM2.5 (kgs/day)	CO2 (kgs/day)
Grubbing/Land Clearing	0.9	6.2	8.1	0.6	0.4	0.2	0.4	0.3	0.0	1,216.2
Grading/Excavation	3.9	23.0	39.4	2.2	2.0	0.2	1.0	1.0	0.0	4 070 4
Drainage/Otilities/Sub-Graue	2.4	14.2	211.21		10	~~~~				4,979.4
Paving	12	70	0.8	0.6	1.2	0.2	1.1	0.6	0.0	4,979.4 2,786.5
Maximum (kilegrome/day)	1.2	7.9	9.8	0.6	1.2 0.6	-	0.6	0.6	-	4,979.4 2,786.5 1,469.1
Maximum (kilograms/day)	1.2 3.9	7.9	9.8 39.4	0.6	1.2 0.6 2.0		1.1 0.6 1.8	0.6 1.8		4,979.4 2,786.5 1,469.1 4,979.4
Maximum (kilograms/day) Total (megagrams/construction project)	1.2 3.9 0.4	7.9 23.8 2.1	9.8 39.4 3.3	0.6 2.2 0.2	1.2 0.6 2.0 0.2	0.2 - 0.2 0.0	1.1 0.6 1.8 0.2	0.6 1.8 0.2		4,979.4 2,786.5 1,469.1 4,979.4 435.8
Maximum (kilograms/day) Total (megagrams/construction project) Notes: Project Start Year -> Project I anoth (months) ->	1.2 3.9 0.4 2018 6	7.9 23.8 2.1	9.8 39.4 3.3	0.6 2.2 0.2	1.2 0.6 2.0 0.2	0.2	1.1 0.6 1.8 0.2	0.6 1.8 0.2	0.0 - 0.0	4,979.4 2,786.5 1,469.1 4,979.4 435.8
Maximum (kilograms/day) Total (megagrams/construction project) Notes: Project Start Year -> Project Length (months) -> Total Periorit Area (hostopec) ->	1.2 3.9 0.4 2018 6 2	7.9 23.8 2.1	9.8 39.4 3.3	0.6 2.2 0.2	1.2 0.6 2.0 0.2	0.2	0.6 1.8 0.2	0.6 1.8 0.2	- - 0.0	4,979.4 2,786.5 1,469.1 4,979.4 435.8
Maximum (kilograms/day) Total (megagrams/construction project) Notes: Project Start Year -> Project Length (months) -> Total Project Area (hectares) -> Maximum Area Disturbed/Day (hectares)	1.2 3.9 0.4 2018 6 2 0	7.9 23.8 2.1	9.8 39.4 3.3	0.6 2.2 0.2	1.2 0.6 2.0 0.2	0.2	1.1 0.6 1.8 0.2	0.6 1.8 0.2	0.0 - 0.0	4,979.4 2,786.5 1,469.1 4,979.4 435.8
Maximum (kilograms/day) Total (megagrams/construction project) Notes: Project Start Year -> Project Length (months) -> Total Project Area (hectares) -> Maximum Area Disturbed/Day (hectares) -> Total Seil Impedied(Excented (motes <sup>2</sup> /dau))	1.2 3.9 0.4 2018 6 2 0 0	7.9 23.8 2.1	9.8 <u>9.8</u> <u>39.4</u> <u>3.3</u>	0.6 2.2 0.2	1.2 0.6 2.0 0.2	0.2	0.6 1.8 0.2	0.6 1.8 0.2	0.0	4,979.4 2,786.5 1,469.1 4,979.4 435.8

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and 1. Total PM2.5 emissions shown in Column J are the sume of exhaust and fugitive dust emissions shown in columns K and L.

# Road Construction Emissions Model Data Entry Worksheet

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Note: Required data input sections have a yellow background. Optional data input sections have a blue background. Only areas with a yellow or blue background can be modified. Program defaults have a white background. The user is required to enter information in cells C10 through C25.

Project NameCarpenter?WhitmoreConstruction Start Year2018Project Type2Project Construction Time6.00Predominant Soil/Site Type: Enter 1, 2, or 31Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Input Type	
Construction Start Year2018Project Type2Project Construction Time6.00Predominant Soil/Site Type: Enter 1, 2, or 31Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Project Name	Carpenter?Whitmore
Project Type2Project Construction Time6.00Predominant Soil/Site Type: Enter 1, 2, or 31Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Construction Start Year	2018
Project Construction Time6.00Predominant Soil/Site Type: Enter 1, 2, or 31Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Project Type	2
Predominant Soil/Site Type: Enter 1, 2, or 31Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Project Construction Time	6.00
Project Length0.91Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Predominant Soil/Site Type: Enter 1, 2, or 3	1
Total Project Area5.51Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Project Length	0.91
Maximum Area Disturbed/Day0.04Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Total Project Area	5.51
Water Trucks Used?1Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Maximum Area Disturbed/Day	0.04
Soil Imported0.00Soil Exported0.00Average Truck Capacity20	Water Trucks Used?	1
Soil Exported     0.00       Average Truck Capacity     20	Soil Imported	0.00
Average Truck Capacity 20	Soil Exported	0.00
	Average Truck Capacity	20

The remaining sections of this sheet contain areas that can be modified by the user, although those

Note: The program's estimates of construction period phase length can be overridden in cells C34 through

	User Override of
Construction Periods	Construction Months
Grubbing/Land Clearing	
Grading/Excavation	
Drainage/Utilities/Sub-Grade	
Paving	
Totals	0.00

NOTE: soil hauling emissions are included in the Grading/Excavation Construction Per

### Hauling emission default values can be overridden in cells C45 through C46.

Soil Hauling Emissions	User Override of
User Input	Soil Hauling Defaults
Miles/round trip	
Round trips/day	
Vehicle miles traveled/day (calculated)	
Hauling Emissions	ROG
Emission rate (grams/mile)	0.15
Emission rate (grams/trip)	0.00
Pounds per day	0.00
Tons per contruction period	0.00

#### Worker commute default values can be overridden in cells C60 through C65.

	User Override of Worker
Worker Commute Emissions	Commute Default Values
Miles/ one-way trip	
One-way trips/day	
No. of employees: Grubbing/Land Clearing	
No. of employees: Grading/Excavation	
No. of employees: Drainage/Utilities/Sub-Grade	
No. of employees: Paving	
	ROG
Emission rate - Grubbing/Land Clearing (grams/mile)	0.120
Emission rate - Grading/Excavation (grams/mile)	0.120
Emission rate - Draining/Utilities/Sub-Grade (gr/mile)	0.120
Emission rate - Paving (grams/mile)	0.120
Emission rate - Grubbing/Land Clearing (grams/trip)	0.415
Emission rate - Grading/Excavation (grams/trip)	0.415
Emission rate - Draining/Utilities/Sub-Grade (gr/trip)	0.415
Emission rate - Paving (grams/trip)	0.415
Pounds per day - Grubbing/Land Clearing	0.078
Tons per const. Period - Grub/Land Clear	0.001
Pounds per day - Grading/Excavation	0.264
Tons per const. Period - Grading/Excavation	0.007
Pounds per day - Drainage/Utilities/Sub-Grade	0.186
Tons per const. Period - Drain/Util/Sub-Grade	0.004
Pounds per day - Paving	0.140
Tons per const. Period - Paving	0.001
tons per construction period	0.013

### Water truck default values can be overriden in cells C91 through C93 and E91 through E93.

Water Truck Emissions	User Override of Default # Water Trucks
Grubbing/Land Clearing - Exhaust	
Grading/Excavation - Exhaust	
Drainage/Utilities/Subgrade	
	ROG
Emission rate - Grubbing/Land Clearing (grams/mile)	0.15
Emission rate - Grading/Excavation (grams/mile)	0.15
Emission rate - Draining/Utilities/Sub-Grade (gr/mile)	0.15
Pounds per day - Grubbing/Land Clearing	0.01
Tons per const. Period - Grub/Land Clear	0.00
Pound per day - Grading/Excavation	0.01
Tons per const. Period - Grading/Excavation	0.00
Pound per day - Drainage/Utilities/Subgrade	0.01
Tons per const. Period - Drainage/Utilities/Subgrade	0.00

### Fugitive dust default values can be overridden in cells C110 through C112.

Fugitive Dust	User Override of Max Acreage Disturbed/Day
Fugitive Dust - Grubbing/Land Clearing	
Fugitive Dust - Grading/Excavation	
Fugitive Dust - Drainage/Utilities/Subgrade	

Off-Road Equipment Emissio	ns
----------------------------	----

	Default
Grubbing/Land Clearing	Number of Vehicles
Override of Default Number of Vehicles	Program-estimate
	1
	2
	2
	2
	Grubbing/Land Clearing
	Grubbing/Land Clearing

Grading/Excavation Override of Default Number of Vehicles	Default Number of Vehicles Program-estimate
	1
	1
	3
	Ŭ.
	2
	2
	1
	2
	2
	4
	Grading/Excavation
	Grading

Drainage/Utilities/Subgrade	Default Number of Vehicles
Override of Default Number of Vehicles	Program-estimate
	1
	1
	1
	1
	1
	1
	1
	2
	3
	Drainage
	Drainage

Paving	Default Number of Vehicles
Override of Default Number of Vehicles	Program-estimate
	1
	1
	/
	2
	£
	2
	3
	, , , , , , , , , , , , , , , , , , ,
	Paving
	Paving
otal Emissions all Phases (tons nor construction period) -	

Equipment default values for horsepower and hours/day can be overridden in cells C289 through C322 ar

Equipment	
Aerial Lifts	
Air Compressors	
Bore/Drill Rigs	
Cement and Mortar Mixers	
Concrete/Industrial Saws	
Cranes	
Crawler Tractors	
Crushing/Proc. Equipment	
Excavators	
Forklifts	
Generator Sets	
Graders	
Off-Highway Tractors	
Off-Highway Trucks	
Other Construction Equipment	
Other General Industrial Equipment	
Other Material Handling Equipment	
Pavers	
Paving Equipment	
Plate Compactors	
Pressure Washers	
Pumps	
Rollers	
Rough Terrain Forklifts	
Rubber Tired Dozers	
Rubber Tired Loaders	
Scrapers	
Signal Boards	
Skid Steer Loaders	
Surfacing Equipment	
Sweepers/Scrubbers	
Tractors/Loaders/Backhoes	
Trenchers	
Welders	

END OF DATA ENTRY SHEET

0

Version 7.1.5.1



Enter a Year between 2009 and 2025 (inclusive)

1 New Road Construction 2 Road Widening 3 Bridge/Overpass Construction months 1. Sand Gravel 2. Weathered Rock-Earth 3. Blasted Rock miles acres acres 1. Yes 2. No yd<sup>3</sup>/day yd<sup>3</sup>/day yd<sup>3</sup> (assume 20 if unknown)

To begin a new prc previously entered opted not to dis

r, although those modifications are optional.

ells C34 through C37.

Program			
Calculated			
Months	2005	%	200
0.60	0.00	0.00	0.0
2.40	0.00	0.00	0.0
2.10	0.00	0.00	0.0
0.90	0.00	0.00	0.0
6.00			

struction Period Phase, therefore the Construction Period for Grading/Excavation cannot be zero if hauling is part of the project.

Default Values	
30	
0	
	0

NOx	СО	PM10	PM2.5
6.66	0.67	0.16	0.09
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00

Default Values	;
20	
2	
6	
21	
15	
11	

NOx	CO	PM10	PM2.5
0.154	1.399	0.047	0.020
0.154	1.399	0.047	0.020
0.154	1.399	0.047	0.020
0.154	1.399	0.047	0.020
0.255	3.410	0.004	0.003
0.255	3.410	0.004	0.003
0.255	3.410	0.004	0.003
0.255	3.410	0.004	0.003
0.092	0.864	0.026	0.011
0.001	0.006	0.000	0.000
0.313	2.938	0.088	0.037
0.008	0.078	0.002	0.001
0.221	2.074	0.062	0.026
0.005	0.048	0.001	0.001
0.166	1.555	0.047	0.020
0.002	0.015	0.000	0.000
0.016	0.147	0.004	0.002

Program Estimate of	User Override of Truck	Default Values	
Number of Water Trucks	Miles Traveled/Day	Miles Traveled/Day	
1		40	
1		40	
1		40	
NOx	CO	PM10	PM2.5
6.66	0.67	0.16	0.09
6.66	0.67	0.16	0.09
6.66	0.67	0.16	0.09
0.59	0.06	0.01	0.01
0.00	0.00	0.00	0.00
0.59	0.06	0.01	0.01
0.02	0.00	0.00	0.00
0.59	0.06	0.01	0.01
0.01	0.00	0.00	0.00

Default	PM10	PM10	PM2.5
Maximum Acreage/Day	pounds/day	tons/per period	pounds/day
0.04	0.4	0.0	0.1
0.04	0.4	0.0	0.1
0.04	0.4	0.0	0.1

	ROG	со	NOx
Туре	pounds/day	pounds/day	pounds/day
Aerial Lifts	0.00	0.00	0.00
Air Compressors	0.00	0.00	0.00
Bore/Drill Rigs	0.00	0.00	0.00
Cement and Mortar Mixers	0.00	0.00	0.00
Concrete/Industrial Saws	0.00	0.00	0.00
Cranes	0.00	0.00	0.00
Crawler Tractors	0.66	4.47	8.32
Crushing/Proc. Equipment	0.00	0.00	0.00
Excavators	0.63	5.58	6.40
Forklifts	0.00	0.00	0.00
Generator Sets	0.00	0.00	0.00
Graders	0.00	0.00	0.00
Off-Highway Tractors	0.00	0.00	0.00
Off-Highway Trucks	0.00	0.00	0.00
Other Construction Equipment	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00
Other Material Handling Equipment	0.00	0.00	0.00
Pavers	0.00	0.00	0.00
Paving Equipment	0.00	0.00	0.00
Plate Compactors	0.00	0.00	0.00
Pressure Washers	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
Rollers	0.00	0.00	0.00
Rough Terrain Forklifts	0.00	0.00	0.00
Rubber Tired Dozers	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00
Scrapers	0.00	0.00	0.00
Signal Boards	0.56	2.58	2.45
Skid Steer Loaders	0.00	0.00	0.00
Surfacing Equipment	0.00	0.00	0.00
Sweepers/Scrubbers	0.00	0.00	0.00
Tractors/Loaders/Backhoes	0.00	0.00	0.00
Trenchers	0.00	0.00	0.00
Welders	0.00	0.00	0.00
pounds per day	1.8	12.6	17.2
tons per phase	0.0	0.1	0.1

	ROG	СО	NOx
Туре	pounds/day	pounds/day	pounds/day
Aerial Lifts	0.00	0.00	0.00
Air Compressors	0.00	0.00	0.00
Bore/Drill Rigs	0.00	0.00	0.00
Cement and Mortar Mixers	0.00	0.00	0.00
Concrete/Industrial Saws	0.00	0.00	0.00
Cranes	0.00	0.00	0.00
Crawler Tractors	0.66	4.47	8.32
Crushing/Proc. Equipment	0.00	0.00	0.00
Excavators	0.94	8.37	9.60
Forklifts	0.00	0.00	0.00
Generator Sets	0.00	0.00	0.00
Graders	1.74	6.93	16.62
Off-Highway Tractors	0.00	0.00	0.00
Off-Highway Trucks	0.00	0.00	0.00
Other Construction Equipment	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00
Other Material Handling Equipment	0.00	0.00	0.00
Pavers	0.00	0.00	0.00
Paving Equipment	0.00	0.00	0.00
Plate Compactors	0.00	0.00	0.00
Pressure Washers	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
Rollers	0.54	3.02	4.95
Rough Terrain Forklifts	0.00	0.00	0.00
Rubber Tired Dozers	0.00	0.00	0.00
Rubber Tired Loaders	0.44	3.11	5.26
Scrapers	2.37	14.51	28.08
Signal Boards	0.56	2.58	2.45
Skid Steer Loaders	0.00	0.00	0.00
Surfacing Equipment	0.00	0.00	0.00
Sweepers/Scrubbers	0.00	0.00	0.00
Tractors/Loaders/Backhoes	1.12	6.28	10.57
Trenchers	0.00	0.00	0.00
Welders	0.00	0.00	0.00
normale non-dev	<b>.</b>	10.0	05.0
tons per phase	8.4 0.2	49.3	85.9
	0.2	1.3	2.3

	POC	60	NOv
	nounds/day	00 vcb/sbauoa	
Aerial Lifts			
Air Compressors	0.58	3 40	3.86
Bore/Drill Rigs	0.00	0.00	0.00
Cement and Mortar Mixers	0.00	0.00	0.00
Concrete/Industrial Saws	0.00	0.00	0.00
Cranes	0.00	0.00	0.00
Crawler Tractors	0.00	0.00	0.00
Crushing/Proc. Equipment	0.00	0.00	0.00
Excavators	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00
Generator Sets	0.43	2.96	3.42
Graders	0.87	3.46	8.31
Off-Highway Tractors	0.00	0.00	0.00
Off-Highway Trucks	0.00	0.00	0.00
Other Construction Equipment	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00
Other Material Handling Equipment	0.00	0.00	0.00
Pavers	0.00	0.00	0.00
Paving Equipment	0.00	0.00	0.00
Plate Compactors	0.04	0.21	0.25
Pressure Washers	0.00	0.00	0.00
Pumps	0.36	2.44	2.83
Rollers	0.00	0.00	0.00
Rough Terrain Forklifts	0.17	2.03	2.02
Rubber Tired Dozers	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00
Scrapers	1.19	7.26	14.04
Signal Boards	0.56	2.58	2.45
Skid Steer Loaders	0.00	0.00	0.00
Surfacing Equipment	0.00	0.00	0.00
Sweepers/Scrubbers	0.00	0.00	0.00
Tractors/Loaders/Backhoes	0.84	4.71	7.92
Trenchers	0.00	0.00	0.00
Welders	0.00	0.00	0.00
pounds per day	5.0	29.0	45.1
tons per phase	0.1	0.7	1.0

	ROG	CO	NOx
Туре	pounds/day	pounds/day	pounds/day
Aerial Lifts	0.00	0.00	0.00
Air Compressors	0.00	0.00	0.00
Bore/Drill Rigs	0.00	0.00	0.00
Cement and Mortar Mixers	0.00	0.00	0.00
Concrete/Industrial Saws	0.00	0.00	0.00
Cranes	0.00	0.00	0.00
Crawler Tractors	0.00	0.00	0.00
Crushing/Proc. Equipment	0.00	0.00	0.00
Excavators	0.00	0.00	0.00
Forklifts	0.00	0.00	0.00
Generator Sets	0.00	0.00	0.00
Graders	0.00	0.00	0.00
Off-Highway Tractors	0.00	0.00	0.00
Off-Highway Trucks	0.00	0.00	0.00
Other Construction Equipment	0.00	0.00	0.00
Other General Industrial Equipment	0.00	0.00	0.00
Other Material Handling Equipment	0.00	0.00	0.00
Pavers	0.33	2.84	3.45
Paving Equipment	0.24	2.69	2.59
Plate Compactors	0.00	0.00	0.00
Pressure Washers	0.00	0.00	0.00
Pumps	0.00	0.00	0.00
Rollers	0.54	3.02	4.95
Rough Terrain Forklifts	0.00	0.00	0.00
Rubber Tired Dozers	0.00	0.00	0.00
Rubber Tired Loaders	0.00	0.00	0.00
Scrapers	0.00	0.00	0.00
Signal Boards	0.56	2.58	2.45
Skid Steer Loaders	0.00	0.00	0.00
Surfacing Equipment	0.00	0.00	0.00
Sweepers/Scrubbers	0.00	0.00	0.00
Tractors/Loaders/Backhoes	0.84	4.71	7.92
Trenchers	0.00	0.00	0.00
Welders	0.00	0.00	0.00
	<u>.</u>	45.0	04.4
pounds per day	2.5	15.8	21.4
tons per phase	0.0	0.2	0.2
	0.4	2.2	3.6

### hrough C322 and E289 through E322.

Default Values	Default Values
Horsepower	Hours/day
106	0
100	0
	0
10	8
04	8
226	8
208	8
142	8
163	8
89	8
66	8
175	8
123	8
400	8
172	8
88	8
167	8
126	8
131	8
8	8
26	8
53	8
81	8
100	8
255	8
200	8
362	8
20	8
65	8
254	8
64	8
08	2 8
81	<u> </u>
45	Q
40	Ó

c)ject, click this button to clear dataf. This button will only work if youable macros when loading this spreadsheet.

%	2007	%
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

### uling is part of the project.

CO2	
<b>CO2</b> 1624.61	
<b>CO2</b> 1624.61 0.00	
<b>CO2</b> 1624.61 0.00 0.00	

CO2	
443,880	
443.880	
443.880	
443.880	
95.711	
95.711	
95.711	
95.711	
247.063	
1.631	
840.013	
22.176	
592.950	
13.697	
444.713	
4.403	
41.907	

CO2
1624.61
1624.61
1624.61
143.14
0.94
143.14
3.78
143.14
3.31

PM2.5
tons/per period
0.0
0.0
0.0

PM10	PM2.5	CO2
pounds/day	pounds/day	pounds/day
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	0.00
0.00	0.00	0.00
0.31	0.29	824.93
0.00	0.00	0.00
0.31	0.29	1145.55
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	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	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
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.15	0.14	314.87
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	0.00
0.00	0.00	0.00
0.8	0.7	2285.3
0.0	0.0	15.1

PM10	PM2.5	CO2
pounds/day	pounds/day	pounds/day
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	0.00
0.00	0.00	0.00
0.31	0.29	824.93
0.00	0.00	0.00
0.47	0.43	1718.33
0.00	0.00	0.00
0.00	0.00	0.00
0.93	0.86	1334.78
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	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	0.00	0.00
0.34	0.31	558.85
0.00	0.00	0.00
0.00	0.00	0.00
0.18	0.16	662.49
1.11	1.02	3217.12
0.15	0.14	314.87
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.75	0.69	1340.10
0.00	0.00	0.00
0.00	0.00	0.00
4.2	3.9	9971.5
0.1	0.1	263.2

PM10	PM2.5	CO2
pounds/day	pounds/day	pounds/day
0.00	0.00	0.00
0.30	0.27	507.95
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	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.23	0.21	487.07
0.47	0.43	667.39
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	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.01	0.01	34.45
0.00	0.00	0.00
0.19	0.18	396.14
0.00	0.00	0.00
0.10	0.09	372.67
0.00	0.00	0.00
0.00	0.00	0.00
0.55	0.51	1608.56
0.15	0.14	314.87
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.56	0.52	1005.08
0.00	0.00	0.00
0.00	0.00	0.00
2.6	2.4	5394.2
0.1	0.1	124.6

PM10	PM2.5	CO2
pounds/day	pounds/day	pounds/day
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	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	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
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.17	0.16	482.19
0.13	0.12	426.37
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.34	0.31	558.85
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.15	0.14	314.87
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.56	0.52	1005.08
0.00	0.00	0.00
0.00	0.00	0.00
	4.0	0707 (
1.3	1.2	2/8/.4
0.0	0.0	27.0
0.2	0.2	430.5

		Weighted -	Weighted -	Weighted -	Weighted	
Year	ROG	Grubbing	Grading	Drainage	Paving	NOx
2009	0.1332	-	-	-	-	0.4682
2010	0.1140					0.4124
2011	0.0982	-	-	-	-	0.3637
2012	0.0843					0.3206
2013	0.0722					0.2827
2014	0.0609	-	-	-	-	0.2488
2015	0.0507	-	-	-	-	0.2192
2016	0.0424					0.1942
2017	0.0348	-	-	-		0.1724
2018	0.0288	0.0288	0.0288	0.0288	0.0288	0.1543
2019	0.0250	-	-	-	-	0.1402
2020	0.0223	-	-	-	-	0.1288
2021	0.0207	-	-	-	-	0.1196
2022	0.0193	-	-	-	-	0.1117
2023	0.0181	-	-	-		0.1050
2024	0.0171	-	-	-	-	0.0994
2025	0.0162	-	-	-	-	0.0946
		0.0288	0.0288	0.0288	0.0288	

### Heavy-Heavy Duty Diesel Truck

Water Truck Commute Emissions (EMFAC2011-HD web, T7 Single Unit Construction Truck)										
	Running Exhaust (g/mi)									
		Weighted-	Weighted -	Weighted -	Weighted					
Model Year	ROG	Grubbing	Grading	Drainage	Paving	NOx				
2009	0.5461	-	-	-	-	14.1399				
2010	0.5341	-	-	-	-	13.5704				
2011	0.5194	-	-	-	-	12.9096				
2012	0.4608	-	-	-	-	12.1601				
2013	0.4024	-	-	-	-	11.3235				
2014	0.2846	-	-	-	-	10.4258				
2015	0.2456	-	-	-	-	9.4052				
2016	0.1569	-	-	-	-	8.2519				
2017	0.1451	-	-	-	-	7.4301				
2018	0.1491	0.1491	0.1491	0.1491	0.1491	6.6629				
2019	0.1527	-	-	-	-	5.8768				
2020	0.1568	-	-	-	-	4.6723				
2021	0.1673	-	-	-	-	2.8722				
2022	0.1808	-	-	-	-	1.7730				
2023	0.1670	-	-	-	-	1.3478				
2024	0.1683	_	-	-	_	1.3659				
2025	0.1694	-	_	-	_	1.3805				
		0.1491	0.1491	0.1491	0.1491					
## APPENDIX B BIOLOGICAL RESOURCES STUDY

## **Natural Environment Study**

(Minimal Impacts)

Whitmore Avenue and Carpenter Road Intersection Improvements Project

CML-5938 (2254)

District 10, Stanislaus County, California

August 2017

STATE OF CALIFORNIA Department of Transportation Stanislaus County

Date: 8/25/17

Diane S. Moore, M.S., Principal Biologist (209) 745-1159 Moore Biological Consultants 10330 Twin Cities Road, Ste. 30, Galt, CA 95632

Prepared By:

Prepared By:

Date: \_\_\_\_\_

Shoaib Ahrary, P.E., Project Engineer (209) 525-4133 Stanislaus County Department of Public Works 1716 Morgan Road, Modesto, CA 95358

Approved By:		Date:	
	Dominic Vitali, District Biologist		
	(209) 948-7952		
	Environmental MPS and Local Assistance Branch		
	California Department of Transportation, District 10		

Approved By:		Date:
	Julie Myrah, Branch Chief	
	(209) 948-7427	
	Environmental MPS and Local Assistance Branch	
	California Department of Transportation, District 10	

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## Summary

The project is the intersection of South Carpenter Road and West Whitmore Avenue in an unincorporated predominantly agricultural area approximately one mile southwest of Modesto, in Stanislaus County, California.

Stanislaus County Department of Public Works, in cooperation with the California Department of Transportation (Caltrans), proposes to install a traffic signal at the intersection and associated road improvements. The intersection would be widened to accommodate existing and projected traffic, including left-turn pockets on all four approaches, and to provide lane transitions and needed shoulder area. Each approach would provide a left-turn pocket and a through-right turn lane. Widening and required transitions would extend from the intersection center approximately 1,200 feet in all directions. The proposed project will also involve replacement of an existing bridge across Turlock Irrigation District (TID) Lateral No. 1 in order to accommodate lane transitions.

This Minimal Impact Natural Environment Study (NES-MI) discusses the existing biological setting, potential project impacts to biological resources, and measures that would be implemented to either avoid or minimize these impacts. Based on the review of habitat requirements and the results of the field assessments, the study area provides potential habitat for only one special-status animal species: Swainson's hawk (*Buteo swainsoni*). Potential disturbance to nesting Swainson's hawks and all species of migratory birds will be avoided or minimized by scheduling the proposed project in the fall or conducting pre-construction surveys during their nesting season. If active nests are found, work will be delayed. No other special-status terrestrial wildlife species have been documented or are expected to occur within or immediately adjacent to the limits of work. With implementation of proposed avoidance and minimization measures, the project would be expected to have no effect on special-status species. Given the level of existing disturbance in the study area from development, agriculture, and road construction and maintenance (i.e., spraying and mowing), the study area does not provide suitable habitat for special-status plant species.

Replacement of the bridge across Lateral No. 1 will involve work in the Lateral No. 1, which is a jurisdictional Water of the U.S. However, the improvements are exempt from 404 permitting requirements pusuant to Regulatory Guidance Letter 07-02. Therefore, a Section 404 permit from the U.S. Army Corps of Engineers (ACOE) and Section 401 Water Quality Certification would not be required.

## 1 - Introduction

#### History

#### Project Purpose and Need

The Carpenter Road/Whitmore Avenue intersection is in a rural predominantly agricultural area approximately one mile southwest of Modesto, in Stanislaus County, California. The road is heavily used by light vehicles and large agicultural vehicles with 4-way stop signs being the only traffic control, leading to traffic congestion. The objective of the project is to improve is to improve traffic safety and flow through the intersection for both current and future traffic conditions, while minimizing the impacts of these improvements on adjacent lands and facilities to the extent feasible. The project is being pursued under the Congestion Mitigation and Air Quality Improvement (CMAQ) Program, the objective of which is to support surface transportation projects and other related efforts that contribute air quality improvements and provide congestion relief.

Stanislaus County proposes to use federal funding to complete the project; therefore, compliance with the National Environmental Policy Act (NEPA) is required. A Preliminary Environmental Study (PES) was prepared by the County and submitted to Caltrans in May 2017. This Natural Environmental Study – Minimal Impact (NES-MI) has been prepared due to the potential for impacts to nesting birds in or near the limits of work.

#### **Project Location**

The project site approximately one mile southwest of Modesto, in Stanislaus County, California (Figure 1). The site is within Sections 12 and 13 within Township 4 South, Range 8 East and Sections 7 and 18 within Township 4 South, Range 9 East of the United States Geological Survey (USGS) 7.5-minute Brush Lake topographic quadrangle (Figure 2). The Biological Study Area (BSA) includes the two paved roads, ruderal and agricultural lands on each side of Carpenter Road and Whitmore Avenue, and adjacent lands within 250 feet of the limits of work (Figure 3).

#### **Project Description**

A traffic signal would be installed at the Carpenter Road/Whitmore Avenue intersection in place of the existing four-way stop signs (see plan in Appendix A). Signalization will involve the installation of foundations, poles and mast arms to support the proposed signal assemblies, street name signs and luminaires, and control boxes and other related equipment. Multi-phase control would be provided to accommodate anticipated turning movements on all four approaches.







All four approaches to the intersection would be widened to accommodate existing and projected traffic operations and to provide lane transitions and shoulder area. Widening and required transitions would extend from the intersection center approximately 1,200 feet along both Carpenter Road and Whitmore Avenue. The widened approaches to the intersection would accommodate a left-turn pocket at each approach, along with a combined through-right turn lane. The project does not include any additional through lanes, nor would it add traffic capacity. The improved roadway sections would be restriped and signed in accordance with County and State standards.

Project improvements would occur within the existing County right-of-way to the extent feasible. Approximately 72,400 square feet of additional right-of-way would be acquired along the southern side of Whitmore Avenue and along the western side of Carpenter Road. The additional right-of-way is required to accommodate the proposed improvements to the intersection while avoiding potential impacts on access to the adjacent TID Lateral No. 1 that runs along the east side of Carpenter Road north of the intersection, then crosses Carpenter Road and runs along the north side of Whitmore Avenue west of the intersection.

The project would require grading of the existing undeveloped County right-of-way and pavement areas to be removed and replaced. Road construction will involve excavation to establish subgrades for roadway reconstruction and widening, and foundations for signal structures and signage. The anticipated maximum depth of excavation for paved areas is estimated at 5 feet. Excavation for signal poles may go as deep as 13 feet. Grading would also occur at two identified driveways and three farm access roads to allow their continued use.

In order to accommodate lane transitions, the widening of Carpenter Road north of the intersection would require removing the existing bridge across Turlock Irrigation District's (TID) Lateral No. 1 and replacing it with a dual box culvert. Approximately 110 feet of Lateral No. 1 would be converted to pipe. TID would be consulted prior to the start of the to avoid disruption of water service and adverse water quality effects. Although the segment of Whitmore Avenue west of the intersection is adjacent to TID Lateral No. 1, the project would avoid the canal and existing vehicle access to the facility.

Existing overhead utilities, including overhead communication lines, would need to be relocated. Approximately nine utility poles along Whitmore Avenue would need to be relocated, and eight utility poles along Carpenter Road. The project would not require removal of structures, but existing paved sections may be removed and replaced or rehabilitated on site. The project would require removal of existing roadside vegetation within the existing right-of-way and of orchard trees within the right-of-way proposed for acquisition.

Equipment and materials staging for the project would occur within existing County road rightof-way and one or two staging areas for construction equipment to be located on adjacent private lands. At this time, no staging areas have been designated. Permission would be obtained from the affected landowners before the staging areas are established.

Existing traffic in the intersection would be accommodated during the construction period pursuant to a Traffic Control Plan to be prepared by the contractor. The north leg of Carpenter Road is expected to be closed during construction and traffic lanes would likely be reduced in the other three legs of the intersection. Detour(s) would be available if closure(s) are required.

## 2 - Study Methods

This NES-MI was prepared to document the existing natural environment in the biological "study area" (BSA), which is defined as all areas of potential direct and indirect disturbance from this project. This NES-MI also evaluates potential impacts to biological resources in the study area resulting from the construction of the proposed project. As wildlife is mobile, the work proposed within the road ROW has potential to impact off-site resources. Therefore, the impact analysis extends outside the BSA variable distances, dependent on subject resource.

This document is intended to satisfy the requirements of the NES-MI by providing the pertinent biological information regarding the effects that this project would have on Federal and State special-status species and other natural resources that may be present in the BSA. This NES-MI was prepared using guidelines (CalTrans, 2009) developed to comply with the California Environmental Quality Act (CEQA), NEPA, the State of California Endangered Species Act (CESA), the Federal Endangered Species Act (FESA), the Federal Clean Water Act, and a variety of State and Federal laws, regulations, and Executive Orders relating to the natural environment and its biological resources.

#### **Regulatory Requirements**

**Clean Water Act:** The Clean Water Act (CWA) 33 U.S.C. 1251-1376) provides guidance for the restoration and maintenance of the chemical, physical, and biological integrity of the nation's waters.

#### Section 404 of the Clean Water Act

Section 404 of the CWA establishes a permit program administered by the U.S. Army Corps of Engineers (ACOE) regulating the discharge of dredged or fill material into Waters of the United States (including wetlands). Implementing regulations by ACOE are found at 33 CFR Parts 320-330. Guidelines for implementation are referred to as the Section 404 (b)(1) Guidelines and were developed by the Environmental Protection Agency (EPA) in conjunction with ACOE (40 CFR Parts 230). The Guidelines allow the discharge of dredged or fill material into the aquatic system only if there is no practicable alternative that would have less adverse impacts.

#### Section 401 of the Clean Water Act

Section 401 of the CWA requires that an applicant for a Federal license or permit that allows activities resulting in a discharge to waters of the U.S. must obtain a state certification that the discharge complies with other provisions of CWA. The Regional Water Quality Control Board (RWQCB) administers the certification program in California.

#### Section 402 of the Clean Water Act

Section 402 of the CWA establishes a permitting system for the discharge of any pollutant (except dredge or fill material) into waters of the United States.

#### Section 10 of the Rivers and Harbors Act

Section 10 of the Rivers and Harbors Act (33 U.S.C. 401 et seq.) is administered by ACOE. This section requires permits in navigable waters of the U.S. for all structures such as riprap and activities such as dredging. Navigable waters are defined as those subject to the ebb and flow of the tide and susceptible to use in their natural condition or by reasonable improvements as means to transport interstate or foreign commerce. The ACOE grants or denies permits based on the effects on navigation. Most activities covered under this act are also covered under Section 404 of CWA.

#### Sections 1601-1603 of the Fish and Game Code

Under Sections 1601-1603 of the Fish and Game Code, Caltrans and other agencies are required to notify California Department of Fish and Wildlife (CDFW) prior to any project that would divert, obstruct or change the natural flow, bed, channel, or bank of any river, stream, or lake. Preliminary notification and project review generally occurs during the environmental process. When an existing fish or wildlife resource may be substantially adversely affected, CDFW is

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required to propose reasonable project changes to protect the resource. These modifications are formalized in a Streambed Alteration Agreement that becomes part of the plans, specifications and bid documents for the project.

#### Federal Endangered Species Act

The Endangered Species Act (ESA) of 1973 (16 U.S.C. 1531-1543) and subsequent amendments provide guidance for the conservation of endangered and threatened species and the ecosystems upon which they depend.

Section 7 requires Federal agencies, in consultation with, and with the assistance of the Secretary of the Interior or the Secretary of Commerce, as appropriate, to insure that actions they authorize, fund, or carry out are not likely to jeopardize the continued existence of threatened or endangered species or result in the destruction or adverse modification of critical habitat for these species. The U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) share responsibilities for administering the Act. Regulations governing interagency cooperation under Section 7 are found at 50 CFR Part 402. In many cases, the opinion issued at the conclusion of consultation includes a statement authorizing take that may occur incidental to an otherwise legal activity.

#### California Endangered Species Act

The California Endangered Species Act (Fish and Game Code 2050 et seq.) establishes the policy of the State to conserve, protect, restore, and enhance threatened or endangered species and their habitats. CESA mandates that State agencies should not approve projects that would jeopardize the continued existence of threatened or endangered species if reasonable and prudent alternatives are available that would avoid jeopardy. CESA requires State lead agencies to consult with CDFW during their environmental review processes to avoid jeopardy to threatened or endangered species. As an outcome of consultation, CDFW is required to issue a written finding indicating if a project would jeopardize threatened or endangered species and specifying reasonable and prudent alternatives that would avoid jeopardy. The Act provides for joint consultations when both the State and Federal governments list species.

#### **Migratory Bird Treaty Act**

The Migratory Bird Treaty Act (MBTA) (16 USC, Section 703-711; 40 Stat. 755), as amended, prohibits killing, possessing, or trading in migratory birds except in accordance with regulations prescribed by the Secretary of the Interior. This act applies to whole birds, parts of birds, and bird nests and eggs. The MBTA does not provide protection for habitat of migratory birds, but

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does prohibit the destruction or possession of individual birds, eggs, or nest in active use without a permit from USFWS.

#### **Studies Required**

#### Literature Search

A list of special-status species that have the potential to occur within the BSA was produced from a United States Fish and Wildlife Service (USFWS) species list of the area and a search of CDFW's California Natural Diversity Database (CNDDB, 2017) (Appendix B). The CNDDB query encompassed the Brush Lake topographic quadrangle and the eight surrounding quadrangles (i.e., Ripon, Salida, Riverbank, Westley, Ceres, Patterson, Crows Landing, and Hatch). The USFWS IPaC web site was also searched for areas of federally designated critical habitat for listed species that may occur in or be affected by projects in the project vicinity (Appendix B).

#### **Field Reviews**

After a review of the results of the CNDDB and IPaC Trust Report, Diane S. Moore, M.S. (Moore Biological Consultants) conducted a field survey on August 10, 2017. The survey area included the BSA (i.e., the limits of work and buffer areas extending 250 feet beyond the limits of work) and areas that were accessible and visible from the BSA.

#### **Survey Methods**

Surveys were conducted to determine if suitable habitat for special-status plants or animals is present in the BSA. Species of primary concern were then identified based on presence of suitable habitat in the project site, the location of the project site within the current range of the species, and identification of a mechanism of a potentially significant impact to the species from the proposed project. All wildlife habitats within the BSA were visually surveyed on foot, and all plant and animal species within the BSA were identified to. Based on the existing conditions within the BSA, no focused plant or wildlife surveys were completed.

NATURAL HABITATS: Biological resources in the BSA were classified and described through a literature review and a field survey. Vegetation within the BSA was classified using the natural community classification system used by CDFW's CNDDB (Holland, 1986).

WETLANDS: The BSA was inspected for areas that meet the technical and regulatory criteria of "Waters of the U.S." as defined in 33 CFR 328.4 or wetlands as defined in the ACOE Wetlands Delineation Manual (1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2008).

SPECIAL-STATUS SPECIES: Surveys were conducted to determine if suitable habitat for special-status plants or animals, as discussed in the previous section, is present in the BSA. Species of primary concern were then identified based on presence of suitable habitat in the project site, the location of the project site within the current range of the species, and identification of a mechanism of a potentially significant impact to the species from the proposed project. Field surveys were conducted for species presence or suitable habitat for the special-status species of primary concern. While potentially suitable habitat for Swainson's hawk was observed in the BSA, protocol-level field surveys were not necessary to complete this NES. Grasslands within and visible from the BSA were searched for burrowing owls or ground squirrel (*Spermophilus beecheyi*) burrows that could be used by burrowing owls.

#### **Personal Survey Dates**

Diane S. Moore, M.S. (Moore Biological Consultants) conducted a field survey on August 10, 2017.

#### **Agency Coordination and Professional Contacts**

Lists of special-status species that could potentially occur in the project area were obtained through a search of the IPaC web site, which contains regional lists of federally threatened and endangered species. The USFWS lists are constantly updated (Appendix B). CDFW's CNDDB was also searched.

#### Limitations That May Influence Results

No insurmountable problems or limitations (e.g., weather, etc.) were encountered during field surveys that would substantially affect the conclusions of this NES.

## 3 - Results: Environmental Setting

The project site is approximately one mile southwest of Modesto in a rural area of central Stanislaus County, California. Parcels adjacent to the intersection of South Carpenter Road and West Whitmore Avenue are farmed in orchard crops (Figure 3 and photographs in Appendix C).

#### **Description of the Existing Biological and Physical Conditions**

The BSA includes South Carpenter Road and West Whitmore Avenue, ruderal, agricultural and developed areas on each side the roads, and adjacent lands within 250 feet of the limits of work. This BSA was identified as appropriate as project construction will be limited to construction along the existing paved roadways, road shoulders, and the edges of orchards. The project area

is already highly disturbed and subject to existing high levels of noise and activity from vehicle traffic and agricultural activities in adjacent parcels. There will be no noise-intensive construction activities such as pile-driving that would involve potential for noise impacts to biological resources greater than those from the existing high levels of noise and activity.

#### **Physical Conditions**

The project area is generally level and is situated at an elevation of approximately 70 to 80 feet above mean sea level. The BSA enjoys a Mediterranean climate characterized by hot dry summers and cool wet winters. Average annual precipitation is 13 inches.

#### **Biological Conditions in the Study Area**

VEGETATION: The project vicinity historically consisted of valley and foothill grassland vegetation (Holland, 1986). However, virtually all of the grassland in the BSA has been disturbed and is either bare sandy dirt, weedy grassland, cultivated orchards, or developed. Vegetation communities and Habitat types in the BSA include Barren, Ruderal, Landscaped, and Agricultural. The only trees within or along the edges of the limits of work are associated with a home along the west edge of South Carpenter Road south of West Whitmore Avenue and in the orchard south of West Whitmore Avenue and west of South Carpenter Road (Figure 4). No blue elderberry (*Sambucus mexicana*) shrubs were observed within or near the BSA.

#### Barren

The primary barren areas in the BSA are the paved roadways of South Carpenter Road and West Whitmore Avenue. The edges of Lateral No. 1 are also paved. Some of the dirt farm roads along the edges of the orchards and the access roads adjacent to Lateral No. 1 are also bare sandy dirt and support essentially no vegetation.

#### Ruderal

The ruderal grassland vegetation in the BSA is best described as California annual grassland series (Sawyer and Keeler-Wolf, 1995) that is higly disturbed. There is little to no vegetation along the road shoulders where the much of the project will be constructed. The ruderal areas within the BSA are vegetated with various native and non-native annual grass and weed species. Grasses including oats (*Avena* sp.), soft chess brome (*Bromus hordeaceus*), ripgut brome (*Bromus diandrus*), and foxtail barley (*Hordeum murinum*) are dominant grass species in these areas. Other grassland species such as black mustard (*Brassica nigra*), prickly lettuce (*Lactuca serriola*), common sunflower (*Helianthus annuus*), and filaree (*Erodium botrys*) are intermixed with the grasses. Invasive species including yellow star-thistle (*Centaurea solstitialis*) and



puncture vince (*Tribulus terrestris*) are also widespread in the ruderal grassland areas. Appendix D contains a list of plant species observed in the BSA.

#### Landscaped

A few landscaped residential parcels are located within the BSA. These parcels contain ornamental trees and shrubs as well as areas of manicured lawns, paved walkways, and other lanscaped areas. There is a notable sycamore (*Platanus racemosa*) along the west edge of South Carpenter Road south of West Whitmore Avenue in the front yard of a residence (Figure 4 and photograph in Appendix C). There is also a cluster of three olives (*Olea europaea*) near the edge of the road associated with this residence.

#### Agricultural

The fields adjacent to South Carpenter Road and West Whitmore Avenue are farmed almond orchards and walnut orchards (Figure 4). There are narrow strips of disturbed ruderal grassland vegetation and/or barren areas along the edges of some of the orchards. There is a notable California fan palm (*Washingtonia filifera*) along a farm road in the orchard south of West Whitmore Avenue and west of South Carpenter Road (Figure 4 and photograph in Appendix C).

WILDLIFE: Due to construction and maintenance of the roads and Lateral No. 1, intensive agriculture, and associated lack of habitat, the BSA provides habitat for a limited number of terrestrial wildlife species. In contrast, relatively natural areas such as riparian corridors in the greater project vicinity provide habitat for a wide variety of wildlife species. Resident and migratory bird species use habitats in the BSA for foraging; vegetation within the BSA is also suitable for nesting birds. Birds were flying around and over the site and perching in trees. Red-tailed hawk (*Buteo jamaicensis*), turkey vulture (*Cathartes aura*), American kestrel (*Falco sparverius*), mourning dove (*Zenaida macroura*), western kingbird (*Tyrannus verticalis*), and Brewer's blackbird (*Euphagus cyanocephalus*) are representative of the avian species observed in the BSA. A list of wildlife observed during the 2017 field survey is included in Appendix E.

A limited variety of common mammals most likely occur within the BSA, however none were observed during the 2017 survey. Sign of raccoon (*Procyon lotor*) and striped skunk (*Mephitis mephitis*) was observed along Lateral No. 1; a dead black-tailed hare (*Lepus californicus*) was also observed on the road shoulder. Common species such as desert cottontail (*Sylvilagus audubonii*), Virginia opossum (*Didelphis virginiana*), and California ground squirrel (*Spermophilus beecheyi*) are expected to occur in the BSA. A number of species of small rodents including mice (*Mus musculus, Reithrodontomys megalotis, and Peromyscus maniculatus*) and voles (*Microtus californicus*) also likely occur.

Western fence lizard (*Sceloporus occidentalis*) was the only reptile observed in the BSA during the 2017 survey; no amphibians were observed. Based on habitat types present, very few species of reptiles and amphibians are expected to occur in the BSA. Common species such as Pacific chorus frog (*Pseudacris regilla*), common king snake (*Lampropeltis getulus*), and common garter snake (*Thamnophis sirtalis*) are expected occur in the BSA.

#### Habitat Connectivity

The project site is an area of orchards surrounded by other orchards that does not serve as "migration corridor" for wildlife. In contrast, large rivers in the greater project vicinity would be expected to be used as a migration corridor by terrestrial and aquatic wildlife species.

#### **Regional Species and Habitats and Natural Communities of Concern**

As discussed above, a list of special-status species potentially occurring within the BSA was produced from data obtained from the USGS 7.5-minute Brush Lake, Ripon, Salida, Riverbank, Westley, Ceres, Patterson, Crows Landing, and Hatch quadrangles of the CNDDB (2017) and the USFWS IPac Trust Report. Table 1 provides a summary of the listing status and habitat requirements of sensitive species that have been documented in the project vicinity or for which there is potentially suitable habitat in the project vicinity. This table also includes an assessment of the likelihood of occurrence of each of these species in the BSA. The evaluation of the potential for occurrence is based on the distribution of regional occurrences (if any), habitat suitability, and field observations.

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
PLANTS				
Alkali milk- vetch (Astragalus tener var. tener)	-/-/1B	Alkali vernal pools.	А	There are no vernal pools in the BSA. The nearest occurrence of alkali milk-vetch in the CNDDB (2017) search area is approximately 9.5 miles southeast of the BSA.
Heartscale (Atriplex cordulata)	-/-/1B	Valley and foothill grassland, chenopod scrub.	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for this species; there is no chenopod scrub in the BSA. The nearest occurrence of heartscale in the CNDDB (2017) search area is approximately 8 miles southeast of the BSA.

## Table 1: Listed, Proposed Species, and Critical Habitat Potentially Occurring or Known toOccur in the Project Area.

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Lesser saltscale ( <i>Atriplex</i> <i>minuscula</i> )	-/-/1B	Chenopod scrub, playas, valley and foothill grassland	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for Lesser saltscale; there is no chenopod scrub or playas in the BSA. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 10 miles southeast of the BSA.
Vernal pool smallscale (Atriplex persistens)	-/-/1B	Alkali vernal pools.	A	There are no vernal pools in the BSA. The nearest occurrence of vernal pool smallscale in the CNDDB (2017) search area is approximately 5 miles south of the BSA.
Subtle orache (Atriplex subtilis)	-/-/1B	Valley and foothill grassland.	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for this species. The nearest occurrence of subtle orache in the CNDDB (2017) search area is approximately 8.5 miles southeast of the BSA.
Big tarplant (Blepharizonia plumosa ssp. Plumose)	-/-/1B	Valley and foothill grassland, usually in clay soils.	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for big tarplant; no clay soils were observed. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 8 miles southwest of the BSA.
Round-leaved filaree (California macrophylla)	-/-/1B	Cismontane woodland and valley and foothill grassland	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for Round-leaved filaree. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 9 miles southwest of the BSA.
Lemmon's jewelflower (Caulanthus. lemmonii)	-/-/1B	Pinyon-juniper woodland, valley and foothill grassland	A	The ruderal grassland in the BSA is highly disturbed and does not provide suitable habitat for Lemmon's jewelflower. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 12 miles southwest of the BSA.
Delta button celery (Eryngium racemosum)	-/SE/1B	Seasonally inundated (usually floodplain) riparian scrub with a clay substrate.	A	The BSA is highly disturbed and does not provide suitable habitat for this species; no clay soils were observed. There is no riparian scrub habitat in or near the BSA. The nearest occurrence of delta button celery in the CNDDB (2017) search area is approximately 9 miles south of the BSA.

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Diamond-petaled California poppy (Eschscholzia rhombipetala)	-/-/1B	Valley and foothill grasslands, alkaline, clay slopes and flats	A	The BSA is highly disturbed and does not provide suitable habitat for diamond-petaled California poppy. The nearest occurrence of this species in the CNDDB (2017) search area is approximately11.5 miles southwest of the BSA.
California alkali grass (Puccinellia simplex)	-/-/1B	Chenopod scrub, meadows and seeps, valley and foothill grassland, vernal pool habitats; in alkaline, vernally mesic sinks, flats, and lake margins	A	The BSA is highly disturbed and does not provide suitable habitat for California alkali grass. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 8 miles southeast of the BSA.
Prairie wedge grass (Sphenopholis obtusata)	-/-/2	Cismontane woodland, meadows and seeps.	A	The BSA does not provide suitable habitat for this species. There is no cismontane woodland, meadows, or seeps in or near the BSA. The nearest occurrence of prairie wedge grass in the CNDDB (2017) search area is approximately 2 miles west of the BSA.
WILDLIFE				
Birds Swainson's hawk (Buteo swainsoni)	-/ST	Nesting: large trees, usually within riparian corridors. Foraging: agricultural fields and annual grasslands.	HP	Possible: there are suitable nest trees in and near the BSA and open grassland and cropland in the region provides Swainson's hawk foraging habitat. There are several occurrences of nesting Swainson's hawks in the CNDDB (2017) search area, primarily along the San Joaquin River and Stanislaus River corridors. The nearest occurrence of Swainson's hawk in the CNDDB (2017) search area is approximately 5 miles northeast of the BSA.
Tricolored blackbird ( <i>Agelaius</i> <i>tricolor</i> )	-/SE	Requires open water and protected nesting substrate, usually cattails and riparian scrub with surrounding foraging habitat.	A	There is no suitable tricolored blackbird nesting habitat within the BSA, however, grasslands in and near the BSA are marginally suitable for foraging. Tricolored blackbirds may occasionally fly over the BSA. The nearest occurrence of the tricolored blackbird in the CNDDB (2017) search area is approximately 3.5 miles southwest of the BSA.

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Burrowing owl (Athene cunicularia)	-/SC	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation.	HP	Unlikely: no ground squirrel burrows were observed within the BSA. Burrowing owls may forage and/or nest in the BSA in the future. The nearest occurrence of nesting burrowing owls in the CNDDB (2017) search area is approximately 8.5 miles northeast of the BSA.
Western yellow- billed cuckoo (Coccyzus americanus occidentalis)	FT/SE	Nests in riparian forests, along the broad, lower flood-bottoms of larger river systems	A	The site does not contain riparian forest habitat for western yellow-billed cuckoo. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 11 miles northwest of the site.
Loggerhead shrike ( <i>Lanius</i> <i>ludovicianus</i> )	-/SC	Brackish water marshes. Inhabits cattails, tules, and tangles bordering sloughs	A	There is no suitable nesting habitat within the BSA, however, grasslands in and near the BSA are marginally suitable for foraging. Loggerhead shrike may occasionally fly over the BSA. The nearest occurrence of the loggerhead shrike in the CNDDB (2017) search area is approximately 11.5 miles southwest of the BSA.
Song sparrow ("Modesto" population) ( <i>Melospiza</i> <i>melodia</i> )	-/SC	Brackish water marshes. Inhabits cattails, tules, and tangles bordering sloughs.	А	Unlikely: no there is marsh habitat in the BSA. Song sparrow may forage in the BSA. The nearest occurrence of nesting song sparrow in the CNDDB (2017) search area is approximately 6 miles northwest of the BSA.
Least Bell's vireo (Vireo bellii pusillus) Mammals	FE/SE	Nests in willow thickets and other shrubs, primarily in southern California riparian forests	A	Unlikely: no there is nesting habitat in the BSA. Least Bell's vireo may forage in the BSA. The nearest occurrence of nesting Least Bell's vireo in the CNDDB (2017) search area is approximately 13.5 miles northwest of the BSA
San Joaquin kit fox (Vulpes macrotis mutica)	FE/ST	Annual grasslands or grassy open stages with scattered shrubby vegetation.	A	The cropland and ruderal grassland in the BSA provides potentially suitable foraging habitat for San Joaquin kit fox. However, this species primarily occurs in the hills south and west of the site, and is rarely seen on the valley floor. The nearest occurrences of San Joaquin kit fox in the CNDDB (2017) search area is approximately 11.5 miles southwest of the BSA.
Riparian brush rabbit (Sylvilagus bachmani riparius)	FE/SE	Riparian thickets in Stanislaus and southern San Joaquin Counties.	A	The there is no suitable habitat within the BSA for riparian brush rabbit. The nearest occurrence of this species in the CNDDB (2017) search area is approximately 8 miles northwest of the BSA.

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Riparian (=San	FE/SC	Dense riparian	А	The there is no suitable habitat within the
Joaquin Valley)		woodlands and		BSA for riparian woodrat. The nearest
woodrat		scrub along major		occurrence of this species in the CNDDB
(Neotoma		Central Valley		(2017) search area is approximately 8 miles
fuscipes riparia)		rivers		northwest of the BSA.
American badger	-/SC	Drier open stages	А	The ruderal grassland in the site does not
(Taxidea taxus)		of most shrub,		provide suitable habitat for American badger.
		forest, and		The nearest occurrence of this species in the
		herbaceous		CNDDB (2017) search area is approximately
		friable soils		14 lines northwest of the site.
Townsend's big_	-/\$C	Desert scrub	Δ	This species may fly over or forage in the
eared bat	-/50	mixed conifer	Π	site on occasion but the site does not contain
(Corvnorhinus		forest and		suitable roosting habitat for Townsend's big-
townsendii)		pinvon-iuniper or		eared bat. The nearest occurrence of this
		pine forest.		species in the CNDDB (2017) search area is
		Primarily roosts in		approximately 6 miles northeast of the site.
		caves, mines, and		
		buildings		
Reptiles & Amph	ibians			
California tiger	FT/ST	Seasonal water	А	The BSA does not provide suitable breeding
salamander		bodies without		or aestivation habitat for California tiger
(Ambystoma		fish (i.e., vernal		salamander; there are no stock ponds or
californiense)		pools and stock		vernal pools in or near the BSA. The nearest
		ponds); grassland		occurrence of this species in the UNDDB
		habitata with		(2017) search area is approximately 0.5 lines
		burrows		designated critical habitat for California tiger
		bullows.		salamander (USEWS 2005a)
Western pond	-/SC	Perennial bodies	А	The BSA does not provide suitable breeding
turtle (Emys		of water with		or nesting habitat for this species. The
marmorata)		basking site such		nearest occurrence of western pond turtle in
		as log and snags.		the CNDDB (2017) search area is
				approximately 9 miles southeast of the BSA.
California red-	FT/SC	Lowlands and	A	The BSA does not provide suitable aquatic
legged frog		foothills in or near		habitat for this species. Red-legged frogs are
(Rana aurora		permanent sources		extinct on the Central Valley floor and the
arayionii)		of water with		CNDDB (2017) does not contain any records
		vegetation.		sourch area. The BSA is not in designated
				critical habitat for California red-legged frog
				(USFWS, 2006).
San Joaquin	-/SC	Open, dry habitats	А	The BSA does not provide suitable habitat
coachwhip		with little or no		for this species. The nearest occurrence of
(Masticophis		tree cover, found in		San Joaquin coachwhip in the CNDDB
flagellum		valley grassland.		(2017) search area is approximately 11.5
ruddocki)				miles southwest of the BSA

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Giant garter	FT/ST	Freshwater marsh	А	The BSA does not provide suitable aquatic
snake		and low gradient		habitat for giant garter snake. There are no
(Thamnophis		streams; adapted		occurrences of this species in the CNDDB
gigas)		to drainage canals		(2017) search area.
		and irrigation		
		ditches.		
Western	-/SC	Breeds and lays	A	The BSA does not provide suitable breeding
spadefoot (Spea		eggs in seasonal		or aestivation habitat for western spadefoot;
hammonaii)		water bodies such		there are no stock ponds or vernal pools in or
		as deep vernal		spacing in the CNDDR (2017) search area is
		pools of stock		approximately 14 miles southwest of the
		ponus.		BSA
Fish				DSA.
Steelhead -	FT/-	Riffle and pool	А	The BSA does not provide suitable aquatic
Central Valley	1 1/	complexes with	11	habitat for this species. The BSA is not
DPS		adequate		within designated critical habitat for Central
(Oncorhynchus		spawning		Valley steelhead (NOAA, 2005). The nearest
mykiss irideus)		substrates in		occurrence of Central Valley steelhead
		Central Valley		recorded in the CNDDB (2017) is
		drainages.		approximately 1 mile north of the BSA in the
				Tuolumne River.
		~		
Delta smelt	FT/ST	Central Delta	A	The BSA does not provide suitable aquatic
(Hypomesus		sloughs, in		habitat for this species. There are no
transpacificus)		snallow water		occurrences of delta smelt recorded in the $(2017)$ within the $550 \pm (2017)$
		areas with		mile sourch area. The BSA is not within delta
		nlants and other		smelt critical habitat (USEWS 1994)
		suitable refugia.		siller efficial habitat (Obi ((6, 1994)).
		surveile rerugiu.		
Hardhead	-/SC	Clear, deep pools	А	The BSA does not provide suitable aquatic
(Mylopharodon		with sand and		habitat for this species. The nearest
conocephalus)		gravel bottoms in		occurrence of hardhead in the CNDDB
		tributaries to the		(2017) search area is approximately .5 miles
		San Joaquin and		northeast of the BSA in the Tuolumne River.
		Sacramento River.		
Saaramanta		Lakas and rivers	٨	The DSA does not provide suitable aquetia
splittail	-/SC	of the Central	А	habitat for this species. The nearest
(Pogonichthys		valley		occurrence of Sacramento splittail in the
(1 ogoineiditys macrolepidotus)		vanoj.		CNDDB (2017) search area is approximately
				10.5 miles southeast of the BSA.
Invertebrates				
Valley	FT/-	Elderberry shrubs,	А	There are no blue elderberry shrubs in or
elderberry		usually in Central		adjacent to the BSA. The nearest occurrence
longhorn beetle		Valley riparian		of valley elderberry longhorn beetle in the
(Desmocerus		habitats.		CNDDB (2017) search area is approximately
californicus				1.5 miles northwest of the BSA. The BSA is
dimorphus)				not in designated critical habitat for this
				species (USFWS, 1980).
1	1	1	1	

	Status		Habitat	
Common Name	(Federal/	General Habitat	Present/	
(Scientific Name)	State/CNPS)	Description	Absent	Rationale
Vernal pool fairy shrimp ( <i>Branchinecta</i> <i>lynchi</i> )	FT/-	Vernal pools and seasonally wet depressions within the Central Valley.	A	There are no vernal pools or seasonal wetlands within the BSA. The nearest occurrence of vernal pool fairy shrimp recorded in the CNDDB (2017) search area is approximately 7.5 miles north of the BSA. The sBSA is not in designated critical habitat for vernal pool fairy shrimp (USFWS, 2005b).
Vernal pool tadpole shrimp ( <i>Lepidurus</i> <i>packardi</i> )	FE/-	Vernal pools and seasonally wet depressions within the Central Valley.	A	There are no vernal pools or seasonal wetlands in BSA. The nearest occurrence of vernal pool tadpole shrimp recorded in the CNDDB (2015) search area is approximately 9 miles northwest of the BSA. The BSA is not within designated critical habitat for vernal pool tadpole shrimp (USFWS 2005b).

Absent [A] - no habitat present and no further work needed. Habitat Present [HP] -habitat is, or may be present. The species may be present. Present [P] - the species is present. Critical Habitat [CH] - project footprint is located within a designated critical habitat unit, but does not necessarily mean that appropriate habitat is present. Status: Federal Endangered (FE); Federal Threatened (FT); State Endangered (SE); State Threatened (ST); State Species of Special Concern (SC); California Native Plant Society Lists 1A, 1B, and 2.

# 4 - Results: Biological Resources, Discussion of Impacts & Mitigation

#### Habitats and Natural Communities of Special Concern

WATERS OF THE U.S. AND WETLANDS: TID'S Lateral No. 1 is a Water of the U.S., falling under the jurisdiction of ACOE. The lateral flows through the north part of the BSA, under South Carpenter Road, and then along the north edge of West Whitmore Avenue (Figure 4 and photographs in Appendix C). The ordinary high water level during the irrigation season when the canal is full is the limit of ACOE jurisdiction; the BSA contains approximately 1 acre of Waters of the U.S. (Figure 4).

TID's Lateral No. 1 is cement-lined, managed, and highly maintained and has no attributes of Waters of the U.S. beyond conveyance of irrigation water. However, it carries water that is diverted via gravity from the Tuolumne River near La Grange, delivers water to farms along its course, and then ultimately spills back into the San Joaquin River near Grayson. This hydrologic connection with upstream and downstream Waters of the U.S. forms the basis for the Lateral to be a juriscitional Water of the U.S. Lateral No. 1 is identified on the National Wetland Inventory as a Riverine feature (Appendix E).

The project includes removing the existing bridge across Lateral No. 1 and replacing it with a dual box culvert. Approximately 110 feet of Lateral No. 1 would be converted to pipe. The conversion of an irrigaton ditches to a pipe is an exempt activity that does not require a Clean Water Act Section 404 permit from ACOE. Regulatory Guidance Letter (RGL) No. 07-02 (*Exemptions for Construction or Maintenance of Irrigation Ditches and Maintenance of Drainage Ditches Under Section 404 of Clean Water Act* (AOCE, 2007) provides clarification on the construction activities exempt from Clean Water Act Section 404 permitting requirements including ditch relocation, ditch conversion to pipe, lining, and placement of new control structures. The conversion of Lateral No. 1 to pipe as it passes through the intersection is an exempt activity that will not require a Clean Water Act Section 404 permit from ACOE.

CRITICAL HABITAT: The BSA is not within designated critical habitat for Central Valley steelhead (NOAA, 2005), delta smelt (USFWS 1994), vernal pool fairy shrimp, vernal pool tadpole shrimp, or any listed vernal pool plants (USFWS, 2005a), California tiger salamander (USFWS, 2005b), California red-legged frog (USFWS, 2006), or valley elderberry longhorn beetle (USFWS, 1980).

NATURAL COMMUNITIES OF SPECIAL CONCERN: Due to development and high levels of disturbance, there are no natural communities in the BSA. The CNDDB query identified the Coastal and Valley Freshwater Marsh, Great Valley Cottonwood Riparian Forest, Great Valley Mixed Riparian Forest, and Great Valley Valley Oak Riparian Forest vegetation communities (Holland, 1986) within the search area. None of these vegetation communities occur in or adjacent to the BSA.

#### **Special Status Plant Species**

Special-status plants generally occur in relatively undisturbed areas and are largely found within unique vegetation communities and/or habitats such as vernal pools, marshes and swamps, well-developed riparian wetlands, and areas with unique soils. No natural habitats or unique vegetation communities exist within the footprint of the proposed work or elsewhere within the BSA and it is unlikely any special-status plants occur within the footprint of the proposed work or elsewhere work or elsewhere within the BSA.

Special-status plants identified in the CNDDB (2017) query and USFWS IPaC Trust Report include alkali milk-vetch (*Astragalus tener var. tener*), heartscale (*Atriplex cordulata*), lesser saltscale (*Atriplex minuscula*), vernal pool smallscale (*Atriplex persistens*), subtle orache (*Atriplex subtilis*), big tarplant (*Blepharizonia plumosa ssp. plumosa*), round-leaved filaree (*California macrophylla*), Lemmon's jewelflower (*Caulanthus. lemmonii*), delta button celery (*Eryngium racemosum*), Diamond-petaled California poppy (*Escholzia rhombipetala*), California alkali grass (*Puccinellia simplex*), and prairie wedge grass (*Sphenopholis obtusata*). The highly disturbed road shoulders and orchards where the proposed improvements will be constructed do not provide potentially suitable habitat for any of these special-status plant species.

#### **Special Status Animal Species Occurrences**

The overall potential for intensive use of habitats within the limits of work by special-status wildlife species is extremely low. Special-status wildlife species identified in the CNDDB (2017) query and USFWS IPaC Trust Report include Swainson's hawk, tricolored blackbird (Agelaius tricolor), burrowing owl, western yellow-billed cuckoo (Coccyzus americanus occidentalis), loggerhead shrike (Lanius ludovicianus), "Modesto population" of song sparrow (Melospiza melodia), Least Bell's vireo (Vireo bellii pusillus), San Joaquin kit fox (Vulpes macrotis mutica), riparian brush rabbit (Sylvilagus bachmani riparius), riparian (=San Joaquin Valley) woodrat (Neotoma fuscipes riparia), American badger (Taxidea taxus), Townsend's big-eared bat (Corynorhinus townsendii), California tiger salamander (Ambystoma californiense), western pond turtle (Emys marmorata), California red-legged frog (Rana aurora draytonii), San Joaquin coachwhip (Masticophis flagellum ruddocki), giant garter snake (Thamnophis gigas), western spadefoot (Spea hammondii), Steelhead - Central Valley DPS (Oncorhynchus mykiss irideus), delta smelt (Hypomesus transpacificus), hardhead (Mylopharodon conocephalus), Sacramento splittail (*Pogonichthys macrolepidotus*), valley elderberry longhorn beetle (*Desmocerus*) californicus dimorphus), vernal pool fairy shrimp (Branchinecta lynchi), and vernal pool tadpole shrimp (Lepidurus packardi) (Table 1 and Appendix B).

While the project site may have provided habitat for some of the special-status wildlife species listed in Table 1 at some time in the past, farming and development have substantially modified natural habitats in the greater project vicinity. Within the BSA, there is potentially suitable habitat for Swainson's hawks and other bird species protected by the Migratory Bird Treaty Act (MBTA). Swainson's hawk and other birds could be adversely affected by project construction if they nested in or near the BSA during construction and are discussed below. Beyond Swainson's hawk, no other special-status wildlife species is known to occur or is expected to occur in the BSA.

Due to lack of habitat, it is unlikely any other special-status species occurs in the BSA. For example, giant garter snake, Californi tiger salamander, California red-legged frog, western pond turtle, and all species of special-status fish require aquatic habitat, which is absent in the BSA. There is no emergent wetland habitat in the BSA for nesting tricolored blackbirds or song sparrow. The orchards in and surrounding the BSA do not provide suitable habitat for San Joaquin kit fox. Further, this species primarily occurs in the hills south and west of the site, and is rarely seen on the valley floor. The site does not provide well-develop riparian woodlands required by western yellow-billed cuckoo or riparian brush rabbit. Vernal pools or seasonal wetlands are required for vernal pool fairy shrimp, Conservancy fairy shrimp, and vernal pool tadpole shrimp; these habitats are not present in or near the BSA. There are no blue elderberry shrubs in the BSA, precluding the potential occurrence of valley elderberry longhorn beetle

#### Discussion of Swainson's Hawk

The Swainson's hawk is a migratory hawk listed by the State of California as a Threatened species. Swainson's hawks prefer nesting sites that provide sweeping views of nearby foraging grounds consisting of grasslands, irrigated pasture, hay, and wheat crops. Most Swainson's hawks winter in Mexico and breed in California and elsewhere in the western United States. This raptor generally arrives in the Central Valley in mid-March, and begins courtship and nest construction immediately upon arrival at the breeding sites. The young fledge in early July, and most Swainson's hawks leave their breeding territories by late August (CDFG, 1994; SHTAC, 2000).

Swainson's hawks are found in the Central Valley primarily during their breeding season (March 1 through September 15); however, a small number are known to winter on Delta islands (CDFG, 1994). Within the BSA, Swainson's hawks would only be expected during the breeding season. While the MBTA and Fish and Game Code of California protect Swainson's hawks year-round, these laws also protect their nests and eggs during the nesting season.

#### Survey Results

There are only a few trees in the BSA that are large enough to support nesting raptors, inlcuding Swainson's hawks. Two large stick nests were observed in the sycamore on the west side of North Carpenter Road. The nest was empty and is unknown when it was used by nesting raptors or which species used it most recently. Swainson's hawks may also use other trees in the greater project vicinity for nesting, including the fan palm on the south side of West Whitmore Avenue. Parcels of open grassland, cropland, and pasture in the greater project vicinity also provide foraging habitat for this species. No Swainson's hawks was observed during the August 10, 2017 survey, which were conducted during the tail end of the Swainson's hawk nesting season.

The CNDDB (2017) contains numerous records of nesting Swainson's hawks throughout the search area; however, almost all of the nests are along riparian corridors of major rivers many miles from the BSA. The nearest occurrence of nesting Swainson's hawks in the CNDDB (2017) is approximately 5 miles northeast of the BSA.

#### Avoidance and Minimization Efforts/Compensatory Mitigation

Individual Swainson's hawks could be adversely affected by site construction if they nested in trees in or near the BSA prior to the onset of construction. If construction is scheduled to occur between March 1 and September 1, a qualified biologist shall conduct pre-construction surveys for nesting Swainson's hawks within 0.25 miles of the BSA prior to construction. In the event that a Swainson's hawk nest is located within 0.25 miles of the BSA, temporal construction restrictions may be necessary to eliminate the potential for noise disturbance to nesting hawks. If active nests are found, a qualified biologist shall determine the need (if any) for exclusion zones and/or temporal restrictions on construction pursuant to criteria set forth by CDFW (CDFG, 1994) and Swainson's Hawk Technical Advisory Committee (SHTAC, 2000).

Due to a lack of impacts to Swainson's hawks or their foraging habitat, no mitigation is proposed.

#### **Project Impacts**

Nesting Swainson's hawk may be disturbed by noise from construction if they nested in or near the BSA during construction activities. The paved roadways, bare sandy dirt, ruderal grassland, cultivated orchards, and developed areas where work will occur does not represent suitable Swainson's hawk foraging habitat. This proposed project will not result in a loss of Swainson's hawk foraging habitat. With the implementation of the avoidance and minimization measures described above, the project will result in no impacts to nesting Swainson's hawks .

## **5 - Conclusions & Regulatory Determination**

#### Federal Endangered Species Act Consultation Summary

The USFWS IPaC web site was searched for areas of federally designated critical habitat for listed species that may occur in or be affected by projects in the project vicinity. Due to a lack of habitat for federally listed species, project-specific consultation with the USFWS or National Marine Fisheries Service was not necessary.

#### **Essential Fish Habitat Consultation Summary**

Consultation with NMFS on federally listed fish and Essential Fish Habitat is not anticipated for this project because there will be no work in or near any creeks or rivers.

#### Wetlands and Other Waters Coordination Summary

There has been no consultation with permitting agencies. The approximate limit of ACOE jurisdiction is the ordinary high water mark along Lateral No. 1. The conversion of Lateral No. 1 to pipe as it passes through the intersection is an exempt activity that will not require a Clean Water Act Section 404 permit from ACOE. Section 401 Water Quality Certification RWQCB will also not be needed as this is only required as a condition of a 404 permit.

#### **Invasive Species**

Executive Order 13112 (EO 13112) pertains to Invasive Species. EO 13112 was established to prevent the introduction of invasive species, provide for their control, and minimize the economic, ecological, and human health impacts that invasive species cause. Federal Agencies may not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species. Invasive species in the project site include puncture vine and yellow star-thistle; both of these species are widespread in disturbed habitats in the greater project vicinity. Construction of the proposed project is not expected to facilitate the spread of invasive species. All construction equipment shall be cleaned of potential noxious weed sources (mud, vegetation) prior to delivery at the job site and after completion of construction to prevent the spread of invasive species.

#### **Migratory Bird Treaty Act**

Grasslands, trees, and shrubs could be used by nesting birds protected by the Migratory Bird Treaty Act. If possible, vegetation removal will occur outside of the general bird nesting season (February 1 through August 31). Alternately, a qualified biologist will conduct a preconstruction survey no more than 2 weeks prior to vegetation removal. If active nests are found, a qualified biologist shall determine the need (if any) for exclusion zones and/or temporal restrictions on construction.

## 6 - References

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USFWS. 2017. Framework for Assessing Impacts to the Valley Elderberry Longhorn Beetle (*Desmocerus californicus dimorphus*). U.S. Fish and Wildlife Service; Sacramento, California. 28pp

## Appendices

- Appendix A Project Drawing
- Appendix B USFWS IPaC Trust Report and CNDDB Query List
- Appendix C Ground-level Photographs
- Appendix D Plant and Wildlife Observed Lists
- Appendix E National Wetland Inventory

Appendix A Project Drawing



Appendix B USFWS IPaC Trust Report and CNDDB Query List

## **IPaC** resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as trust resources) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

#### Location



#### Local office

Sacramento Fish And Wildlife Office

**\$** (916) 414-6600 (916) 414-6713

Federal Building 2800 Cottage Way, Room W-2605 Sacramento, CA 95825-1846

## Endangered species

#### This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and projectspecific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing sultation the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species<sup>1</sup> are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.

The following species are potentially affected by activities in this location:

#### Reptiles

NAME	STATUS
Giant Garter Snake Thamnophis gigas No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/4482	Threatened

#### Amphibians

NAME	STATUS
California Red-legged Frog Rana draytonii There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. <u>https://ecos.fws.gov/ecp/species/2891</u>	Threatened
California Tiger Salamander Ambystoma californiense There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/2076	Threatened
Fishes	
NAME	STATUS
Delta Smelt Hypomesus transpacificus There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. <u>https://ecos.fws.gov/ecp/species/321</u>	Threatened
Steelhead Oncorhynchus (=Salmo) mykiss	Threatened

There is a final critical habitat designated for this species. Your location is outside the designated critical habitat. https://ecos.fws.gov/ecp/species/1007
Insects	
NAME	STATUS
Valley Elderberry Longhorn Beetle Desmocerus californicus dimorphus There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. <u>https://ecos.fws.gov/ecp/species/7850</u>	Threatened
Crustaceans	
NAME	STATUS
Vernal Pool Fairy Shrimp Branchinecta lynchi There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. <u>https://ecos.fws.gov/ecp/species/498</u>	Threatened
Vernal Pool Tadpole Shrimp Lepidurus packardi There is a final <u>critical habitat</u> designated for this species. Your location is outside the designated critical habitat. <u>https://ecos.fws.gov/ecp/species/2246</u>	Endangered
Critical habitats	a
Potential effects to critical habitat(s) in this location must be analyzed along with the endangered	ed species themselves.
THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.	

Migratory birds

Incocto

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any activity that results in the take (to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct) of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service<sup>3</sup>. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

Additional information can be found using the following links:

- Birds of Conservation Concern <a href="http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php">http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php</a>
- Conservation measures for birds <u>http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/</u> conservation-measures.php
- Year-round bird occurrence data <a href="http://www.birdscanada.org/birdmon/default/datasummaries.jsp">http://www.birdscanada.org/birdmon/default/datasummaries.jsp</a>

The migratory birds species listed below are species of particular conservation concern (e.g. <u>Birds of Conservation Concern</u>) that may be potentially affected by activities in this location. It is not a list of every bird species you may find in this location, nor a guarantee that all of the bird species on this list will be found on or near this location. Although it is important to try to avoid and minimize impacts to all birds, special attention should be made to avoid and minimize impacts to birds of priority concern. To view available data on other bird species that may occur in your project area, please visit the <u>AKN Histogram Tools</u> and <u>Other Bird Data Resources</u>. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

NAME	SEASON(S)
Allen's Hummingbird Selasphorus sasin https://ecos.fws.gov/ecp/species/9637	Migrating
Bald Eagle Haliaeetus leucocephalus	Year-round

Black Rail	Laterallus jamai	icensis
https://e	ecos.fws.gov/ecp/	species/7717

Burrowing Owl Athene cunicularia https://ecos.fws.gov/ecp/species/9737

Costa's Hummingbird Calypte costae https://ecos.fws.gov/ecp/species/9470

Fox Sparrow Passerella iliaca

Least Bittern Ixobrychus exilis https://ecos.fws.gov/ecp/species/6175

Lesser Yellowlegs Tringa flavipes https://ecos.fws.gov/ecp/species/9679

Lewis's Woodpecker Melanerpes lewis https://ecos.fws.gov/ecp/species/9408

Loggerhead Shrike Lanius ludovicianus https://ecos.fws.gov/ecp/species/8833

t for consulta Long-billed Curlew Numenius americanus https://ecos.fws.gov/ecp/species/5511

Marbled Godwit Limosa fedoa https://ecos.fws.gov/ecp/species/9481

Mountain Plover Charadrius montanus https://ecos.fws.gov/ecp/species/3638

Nuttall's Woodpecker Picoides nuttallii https://ecos.fws.gov/ecp/species/9410

Oak Titmouse Baeolophus inornatus https://ecos.fws.gov/ecp/species/9656

Peregrine Falcon Falco peregrinus https://ecos.fws.gov/ecp/species/8831

Rufous Hummingbird selasphorus rufus https://ecos.fws.gov/ecp/species/8002

Short-eared Owl Asio flammeus https://ecos.fws.gov/ecp/species/9295

Swainson's Hawk Buteo swainsoni https://ecos.fws.gov/ecp/species/1098

Western Grebe aechmophorus occidentalis https://ecos.fws.gov/ecp/species/6743

Williamson's Sapsucker Sphyrapicus thyroideus https://ecos.fws.gov/ecp/species/8832

Yellow-billed Magpie Pica nuttalli https://ecos.fws.gov/ecp/species/9726

What does IPaC use to generate the list of migratory bird species potentially occurring in my specified location?

Landbirds:

#### Breeding

Year-round

Year-round

Wintering

Breeding

Wintering

Wintering

Year-round

Wintering

Wintering

Wintering

Year-round

Year-round

Wintering

Migrating

Wintering

Breeding

Wintering

Year-round

Year-round

Migratory birds that are displayed on the IPaC species list are based on ranges in the latest edition of the National Geographic Guide, Birds of North America (6th Edition, 2011 by Jon L. Dunn, and Jonathan Alderfer). Although these ranges are coarse in nature, a number of U.S. Fish and Wildlife Service migratory bird biologists agree that these maps are some of the best range maps to date. These ranges were clipped to a specific Bird Conservation Region (BCR) or USFWS Region/Regions, if it was indicated in the 2008 list of Birds of Conservation Concern (BCC) that a species was a BCC species only in a particular Region/Regions. Additional modifications have been made to some ranges based on more local or refined range information and/or information provided by U.S. Fish and Wildlife Service biologists with species expertise. All migratory birds that show in areas on land in IPaC are those that appear in the 2008 Birds of Conservation Concern report.

#### Atlantic Seabirds:

Ranges in IPaC for birds off the Atlantic coast are derived from species distribution models developed by the National Oceanic and Atmospheric Association (NOAA) National Centers for Coastal Ocean Science (NCCOS) using the best available seabird survey data for the offshore Atlantic Coastal region to date. NOAANCCOS assisted USFWS in developing seasonal species ranges from their models for specific use in IPaC. Some of these birds are not BCC species but were of interest for inclusion because they may occur in high abundance off the coast at different times throughout the year, which potentially makes them more susceptible to certain types of development and activities taking place in that area. For more refined details about the abundance and richness of bird species within your project area off the Atlantic Coast, see the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other types of taxa that may be helpful in your project review.

About the NOAANCCOS models: the models were developed as part of the NOAANCCOS project: <u>Integrative Statistical Modeling and Predictive Mapping of Marine</u> <u>Bird Distributions and Abundance on the Atlantic Outer Continental Shelf</u>. The models resulting from this project are being used in a number of decisionsupport/mapping products in order to help guide decision-making on activities off the Atlantic Coast with the goal of reducing impacts to migratory birds. One such product is the <u>Northeast Ocean Data Portal</u>, which can be used to explore details about the relative occurrence and abundance of bird species in a particular area off the Atlantic Coast.

All migratory bird range maps within IPaC are continuously being updated as new and better information becomes available.

#### Can I get additional information about the levels of occurrence in my project area of specific birds or groups of birds listed in IPaC?

#### Landbirds:

The <u>Avian Knowledge Network (AKN)</u> provides a tool currently called the "Histogram Tool", which draws from the data within the AKN (latest, survey, point count, citizen science datasets) to create a view of relative abundance of species within a particular location over the course of the year. The results of the tool depict the frequency of detection of a species in survey events, averaged between multiple datasets within AKN in a particular week of the year. You may access the histogram tools through the <u>Migratory Bird Programs AKN Histogram Tools</u> webpage.

The tool is currently available for 4 regions (California, Northeast U.S., Southeast U.S. and Midwest), which encompasses the following 32 states: Alabama, Arkansas, California, Connecticut, Delaware, Florida, Georgia, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, New Hampshire, New Jersey, New York, North, Carolina, Ohio, Pennsylvania, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, West Virginia, and Wisconsin.

In the near future, there are plans to expand this tool nationwide within the AKN, and allow the graphs produced to appear with the list of trust resources generated by IPaC, providing you with an additional level of detail about the level of occurrence of the species of particular concern potentially occurring in your project area throughout the course of the year.

#### Atlantic Seabirds:

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAANCCOS <u>Integrative Statistical Modeling</u> and <u>Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project</u> webpage.

## Facilities

## Wildlife refuges

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGES AT THIS LOCATION.

## Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

## Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

#### THERE ARE NO KNOWN WETLANDS AT THIS LOCATION.

#### Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

#### Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

#### Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.





Query Criteria:

Quad<span style='color:Red'> IS </span>(Ripon (3712162)<span style='color:Red'> OR </span>Salida (3712161)<span style='color:Red'> OR </span>Riverbank (3712068)<span style='color:Red'> OR </span>Westley (3712152)<span style='color:Red'> OR </span>Brush Lake (3712151)<span style='color:Red'> OR </span>Ceres (3712058)<span style='color:Red'> OR </span>Patterson (3712142)<span style='color:Red'> OR </span>Crows Landing (3712141)<span style='color:Red'> OR </span>Hatch (3712048))

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor	ABPBXB0020	None	Candidate	G2G3	S1S2	SSC
tricolored blackbird			Endangered			
Ambystoma californiense	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
California tiger salamander						
Ardea herodias	ABNGA04010	None	None	G5	S4	
great blue heron						
Astragalus tener var. tener	PDFAB0F8R1	None	None	G2T2	S2	1B.2
alkali milk-vetch						
Athene cunicularia	ABNSB10010	None	None	G4	S3	SSC
burrowing owl						
Atriplex cordulata var. cordulata	PDCHE040B0	None	None	G3T2	S2	1B.2
heartscale						
Atriplex minuscula	PDCHE042M0	None	None	G2	S2	1B.1
lesser saltscale						
Atriplex persistens	PDCHE042P0	None	None	G2	S2	1B.2
vernal pool smallscale						
Atriplex subtilis	PDCHE042T0	None	None	G1	S1	1B.2
subtle orache						
Blepharizonia plumosa	PDAST1C011	None	None	G2	S2	1B.1
big tarplant						
Bombus caliginosus	IIHYM24380	None	None	G4?	S1S2	
obscure bumble bee						
Bombus crotchii	IIHYM24480	None	None	G3G4	S1S2	
Branchinecta conservatio	ICBRA03010	Endangered	None	G2	S2	
		Thus stops of	Nese	00	00	
vernal pool fairy shrimp	ICBRA03030	Inreatened	None	G3	53	
Pronto butobingii Jougonorgia		Deliated	Nono	CET2	62	
cackling (-Aleutian Canada) goose	ABINJB03033	Delisted	NOTE	6515	33	
Butoo swainsoni		None	Threatened	G5	63	
Swainson's hawk	ABINICE 19070	None	meateried	05	00	
California macrophylla	PDGER01070	None	None	632	537	1B 2
round-leaved filaree	DOLIGIOIO				50.	10.2
Caulanthus lemmonii	PDBRA0M0E0	None	None	G3	<b>S</b> 3	1B.2
Lemmon's jewelflower						. = . =
Ceratochrysis menkei	IIHYM71050	None	None	G1	S1	
Amenke's cuckoo wasp						



## Selected Elements by Scientific Name California Department of Fish and Wildlife California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFV SSC or FP
Coastal and Valley Freshwater Marsh	CTT52410CA	None	None	G3	S2.1	
Coastal and Valley Freshwater Marsh						
Coccyzus americanus occidentalis	ABNRB02022	Threatened	Endangered	G5T2T3	S1	
western yellow-billed cuckoo						
Corynorhinus townsendii	AMACC08010	None	None	G3G4	S2	SSC
Townsend's big-eared bat						
Desmocerus californicus dimorphus	IICOL48011	Threatened	None	G3T2	S2	
valley elderberry longhorn beetle						
Egretta thula	ABNGA06030	None	None	G5	S4	
snowy egret						
Elderberry Savanna	CTT63440CA	None	None	G2	S2.1	
Elderberry Savanna						
Emys marmorata	ARAAD02030	None	None	G3G4	S3	SSC
western pond turtle						
Eremophila alpestris actia	ABPAT02011	None	None	G5T4Q	S4	WL
California horned lark						
Eryngium racemosum	PDAPI0Z0S0	None	Endangered	G1	S1	1B.1
Delta button-celery						
Eschscholzia rhombipetala	PDPAP0A0D0	None	None	G1	S1	1B.1
diamond-petaled California poppy						
Falco columbarius	ABNKD06030	None	None	G5	S3S4	WL
merlin						
Falco mexicanus	ABNKD06090	None	None	G5	S4	WL
prairie falcon						
Great Valley Cottonwood Riparian Forest	CTT61410CA	None	None	G2	S2.1	
Great Valley Cottonwood Riparian Forest						
Great Valley Mixed Riparian Forest	CTT61420CA	None	None	G2	\$2.2	
Great Valley Mixed Riparian Forest				_	_	
Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	G1	S1.1	
Great Valley Valley Oak Riparian Forest						
Lanius Iudovicianus	ABPBR01030	None	None	G4	S4	SSC
loggernead shrike					<b>.</b>	
Lasiurus cinereus	AMACC05030	None	None	G5	S4	
Lepidurus packardi	ICBRA10010	Endangered	None	G4	\$3\$4	
				0000	0000	
Linderiella occidentalis	ICBRA06010	None	None	G2G3	\$2\$3	
				00	00	
Lytta Moesta moestan blister bootlo	IICOL4C020	NONE	NONE	62	52	
		None	Non-	OFTOTO	600	880
San Joaquin coachwhin	ARADD21021	NUTE	NULLE	001213	32 !	330



## Selected Elements by Scientific Name California Department of Fish and Wildlife California Natural Diversity Database



						Rare Plant Rank/CDFV
Species	Element Code	Federal Status	State Status	Global Rank	State Rank	SSC or FP
Melospiza melodia	ABPBXA3010	None	None	G5	S3?	SSC
song sparrow ("Modesto" population)						
Mylopharodon conocephalus	AFCJB25010	None	None	G3	S3	SSC
hardhead						
Neotoma fuscipes riparia	AMAFF08081	Endangered	None	G5T1Q	S1	SSC
riparian (=San Joaquin Valley) woodrat						
Oncorhynchus mykiss irideus	AFCHA0209K	Threatened	None	G5T2Q	S2	
steelhead - Central Valley DPS						
Pogonichthys macrolepidotus	AFCJB34020	None	None	GNR	S3	SSC
Sacramento splittail						
Puccinellia simplex	PMPOA53110	None	None	G3	S2	1B.2
California alkali grass						
Spea hammondii	AAABF02020	None	None	G3	S3	SSC
western spadefoot						
Sphenopholis obtusata	PMPOA5T030	None	None	G5	S2	2B.2
prairie wedge grass						
Sylvilagus bachmani riparius	AMAEB01021	Endangered	Endangered	G5T1	S1	
riparian brush rabbit						
Taxidea taxus	AMAJF04010	None	None	G5	S3	SSC
American badger						
Vireo bellii pusillus	ABPBW01114	Endangered	Endangered	G5T2	S2	
least Bell's vireo						
Vulpes macrotis mutica	AMAJA03041	Endangered	Threatened	G4T2	S2	
San Joaquin kit fox						

Record Count: 52

Appendix C Ground-level Photographs



West edge of South Carpenter Rd., looking south towards West Whitmore Ave.; 08/10/17. The project will involve road widening extending approximately 1,200 feet from the intersection.



North edge of West Whitmore Ave., looking west; 08/10/17. The project will not involve work in the lateral or removing the palm on the south side of the road. Some orchard trees will be removed.



South edge of West Whitmore Ave., looking east towards South Carpenter Rd.; 08/10/17. A few rows of orchard trees will be removed to accommodate the road widening.



South edge of West Whitmore Ave., looking east towards the intersection at South Carpenter Rd.; 08/10/17. The road shoulder is vegetated with ruderal grasses and weeds.



East edge of South Carpenter Rd., looking north towards West Whitmore Ave.; 08/10/17. A few rows of orchard trees will be removed to accommodate the road widening.



South edge of West Whitmore Ave., looking west towards South Carpenter Rd.; 08/10/17. The utility poles will need to be relocated to accommodate the road widening.



West edge of South Carpenter Rd., looking north towards West Whitmore Ave; 08/10/17. The utility poles will need to be relocated to accommodate the road widening.



West edge of South Carpenter Rd., looking south; 08/10/17. The sycamore tree along the road and one of the olives will be removed. The sycamore contains two large stick nests.



North edge of West Whitmore Ave., looking west towards South Carpenter Rd.; 08/10/17. A few rows of orchard trees will be removed to accommodate the road widening.



East edge of South Carpenter Rd., looking north along the TID Lateral #1; 08/10/17. The bridge over the lateral will be replaced, with widening primarily along the west side of South Carpenter Rd.

Appendix D Appendix Plant and Wildlife Observed Lists

### TABLE D-1

### PLANT SPECIES OBSERVED IN THE STUDY AREA

Amsinckia menziesii rancher's fireweed Amaranthus albus tumbleweed wild oat Avena fatua Brassica nigra black mustard Bromus diandrus ripgut brome Conyza bonariensis hairy fleabane horseweed Conyza canadensis Centaurea solstitialis yellow star-thistle Cynodon dactylon Bermuda grass Erodium circutarium red-stem filaree Helianthus annuus common sunflower Heterotheca grandiflora telegraph weed Hordeum murinum foxtail barley prickly lettuce Lactuca serriola Lolium perenne perennial ryegrass Malva neglecta common mallow Olea europaea olive ornamental pine Pinus sp. Polygonum aviculare prostrate knotweed Platanus racemosa sycamore Salsola iberica Russian thistle Sorghum halepense Johnson grass Tribulus terrestris puncture vine Washingtonia filifera California fan palm

## TABLE D-2

## WILDLIFE SPECIES OBSERVED IN THE STUDY AREA

### **Birds**

Turkey vulture	Cathartes aura
Red-tailed hawk	Buteo jamaicensis
American kestrel	Falco sparverius
Mourning dove	Zenaida macroura
Western kingbird	Tyrannus verticalis
Western scrub jay	Aphelocoma coerulescens
American crow	Corvus brachyrhynchos
Northern mockingbird	Mimus polyglottos
Brewer's blackbird	Euphagus cyanocephalus

## Mammals

Raccoon
Black-tailed hare
Striped skunk

## **Reptiles and Amphibians**

Western fence lizard

Procyon lotor Lepus californicus Mephitis mephitis

Sceloporus occidentalis

Appendix E National Wetland Inventory Map



## U.S. Fish and Wildlife Service **National Wetlands Inventory**

# Carpenter/Whitmore



#### August 22, 2017

#### Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland
  - **Freshwater Pond**

Freshwater Emergent Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

# APPENDIX C CULTURAL RESOURCES STUDY

State of California Transportation Agency Department of Transportation

## HISTORIC PROPERTY SURVEY REPORT

1. UNDERTAKING DESCRIPTION AND LOCATION			
District	County	Federal Project. Number. (Prefix, Agency Code, Project No.)	Location
10	STA	CML-5938(225)	Carpenter Road and Whitmore Avenue

The environmental review, consultation, and any other actions required by applicable Federal environmental laws for this project are being, or have been, carried out by Caltrans pursuant to 23 U.S.C. 327 and the Memorandum of Understanding dated December 23, 2016, and executed by FHWA and Caltrans.

The studies for this undertaking were carried out in a manner consistent with Caltrans' regulatory responsibilities under Section 106 of the National Historic Preservation Act (36 CFR Part 800) and pursuant to the January 2014 *First Amended Programmatic Agreement among the Federal Highway Administration, the Advisory Council on Historic Preservation, the California State Historic Preservation Officer, and the California Department of Transportation Regarding Compliance with Section 106 of the National Historic Preservation Act (Section 106 PA).* 

### **Project Description:**

The County of Stanislaus (County) proposes to make intersection and roadway improvements to integrate turning lanes and signalize a newly-designed intersection with turn lanes at Carpenter Road and Whitmore Avenue. This project is intended to reduce vehicle idling time and number of stops in an effort to improve air quality, as well as to improve traffic safety and flow through the intersection. It is funded by the Congestion Mitigation and Air Quality (CMAQ) program, administered by Caltrans for the FHWA.

The intersection of Carpenter Road and Whitmore Avenue, located in Stanislaus County, California, is about a mile west of the most southerly portion of the County Seat, the City of Modesto. Existing traffic control is all-way stop signs and there are no segregated turning lanes at the intersection. The Carpenter Road/Whitmore Avenue intersection would be signalized and widened to accommodate existing traffic operations, including left turn lanes on all four approaches, and to provide lane transitions and needed shoulder area. Each approach will provide a through lane and a left-turn lane. Widening and required transitions will extend from the intersection center approximately 1200 feet north along all legs of the intersections. Signalization will involve the installation of foundations, poles and mast arms to support the proposed signal assemblies, street name signs and luminaires as well as control boxes and other related equipment. Equipment and materials staging for the project will occur within existing County road right-of-way (ROW) and acquired ROW in the northwest, southwest and southeast quadrants (APNs. 056-059-015, 056-059-24, 017-043-027, 017-042-003). Reconstruction and widening to the west of the Turlock Irrigation District (TID) Bridge 38C124 over the Lateral Number 1 will occur.

The project vicinity and location are illustrated in Figures 1 and 2 in Appendix A of the Archaeological Survey Report (ASR), Attachment A of this Historic Property Survey Report (HPSR).

State of California Transportation Agency

Department of Transportation

## HISTORIC PROPERTY SURVEY REPORT

## 2. AREA OF POTENTIAL EFFECTS

In accordance with Section 106 Programmatic Agreement Stipulation VIII.A, the Area of Potential Effects (APE) for the project was established in consultation with Shoaib Ahrary, Project Manager Stanislaus County Public Works, Ben Elliott, Associate Environmental Planner-Archaeology Professionally Qualified Staff (PQS), and Parminder Singh, District Local Assistance Engineer, on 25 January 2017. The signed APE map is located in Appendix A of the ASR, Attachment A of this HPSR.

The APE was established as an area generally defined by the current and proposed ROW of Carpenter Road and Whitmore Avenue extending approximately 1200 feet in all directions from the intersection, including three areas to be acquired. The APE encompasses the area where the project may have direct or indirect effects, including staging areas. The vertical APE is anticipated to be no greater than 2.5 feet.

## **3. CONSULTING PARTIES / PUBLIC PARTICIPATION**

- X Local Government: The project proponent is Stanislaus County
- X Native American Tribes, Groups and Individuals: Details of contact can be found in Appendix B of the ASR, Attachment A of this HPSR.
  - Nototomne Yokuts/Katherine Perez. No concerns were raised.
  - Amah Mutsun Tribal Band/Valentine Lopez. No concerns were raised.
  - Amah Mutsun Tribal Band/Edward Ketchum. No concerns were raised.
  - Tule River Indian Tribe/Kerri Vera, Environmental Dept. No concerns were raised.
  - Tule River Indian Tribe/Joey Garfield, Tribal Archaeological No concerns were raised.
  - Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin. No concerns were raised.
- X Native American Heritage Commission
  - The Native American Heritage Commission (NAHC) was contacted on 1 July 2016 to request an investigation of the Sacred Lands File and get a list of Native Americans potentially knowledgeable about the project. The response received on 5 July 2016 was that the record search of their Sacred Lands File failed to identify the presence of Native American cultural resources in a search radius of ½ mile. Details of contact can be found in Appendix B of the ASR, Attachment A of this HPSR.
- X Local Historical Society / Historic Preservation Group
  - A letter of interest was sent to the McHenry Museum and Historical Society, in Modesto. No response to the letter was received, and the when the telephone number is dialed, the phone rings without pickup. The letter is included in Appendix B of the ASR, Attachment A of this HPSR.

## 4. SUMMARY OF IDENTIFICATION EFFORTS

- X National Register of Historic Places
- X California Points of Historical Interest
- X California Register of Historical
- X California Historical Resources

## HISTORIC PROPERTY SURVEY REPORT

#### Resources

X California Inventory of Historic Resources Information System (CHRIS)

- X Caltrans Historic Highway Bridge Inventory
- X California Historical Landmarks
- X Results:
  - The Central California Information Center (CCIC) of the California Historical Resources Information System (CHRIS) was contacted and a record search of a <sup>1</sup>/<sub>2</sub>mile radius around the project was provided on 5 July 2016 (CCIC No.: 9868N). The letter can be found in the ASR, Appendix B, Attachment A to this HPSR
  - The CHRIS indicated there may have been one cultural resource investigation in the project APE, but they were uncertain. Two other reports have been prepared in the search radius: an archaeological survey for a building and a historical article about a nearby school.
  - No built environment resources were previously identified within the project APE.
  - No cultural resources were identified within the project APE or in the ½-mile search radius.
  - Bridge 38C124, constructed in 1921 and modified in 1955, part of the TID Lateral Number 1, is in the project, but has been previously evaluated as ineligible for the NRHP.

## **5. PROPERTIES IDENTIFIED**

- X No cultural resources are present within the APE.
- X Bridges listed as Category 5 in the Caltrans Historic Highway Bridge Inventory are present within the APE. Appropriate pages from the Caltrans Historic Bridge Inventory are attached in the ASR Appendix B, Attachment A to this HPSR.

## 6. HPSR to District File

X Caltrans, pursuant to Section 106 PA Stipulation VIII.B, has determined that there are no cultural resources present in the APE and/or there are properties within the APE that are exempt from evaluation; see Section 5.

## 7. HPSR to SHPO

X Not applicable.

## 8. HPSR to CSO

X Not applicable.

## 9. Findings for State-Owned Properties

Findings to District File

X Not applicable; project does not involve Caltrans right-of-way or there are no Caltrans-owned cultural resources within the APE.

Findings to SHPO

X Not applicable.

Findings to CSO

[HPSR form rev 5/22/17] Caltrans, Division of Environmental Analysis. Copyright © 2014 State of California. All rights reserved. Alteration to the title and section headings is prohibited. Page 3 State of California Transportation Agency

Department of Transportation

## HISTORIC PROPERTY SURVEY REPORT

X Not applicable.

## **10. CEQA Considerations**

<u>X</u> Not applicable; Caltrans is not the lead agency under CEQA.

## **11. List of Attached Documentation**

- Project Vicinity, Location, and APE Maps
  Attachment A, Appendix A
- California Historic Bridge Inventory sheet Attachment A, Appendix B
- \_ Archaeological Survey Report (ASR)

Attachment A. Archaeological Survey Report for the Carpenter Road at Whitmore Avenue Traffic Signalization CML-5938(225), Stanislaus County, California (Caltrans District 10), Shelly Davis-King, August 2017

## **12. HPSR Preparation and Caltrans Approval**

Prepared by:		
Consultant /	Shelly Davis-King	Date
discipline:	Prehistoric and Historical Archaeologist	
Affiliation	Davis-King& Associates	
Reviewed for approval by:		
District 10 Caltrans	Ben Elliott	Date
PQS discipline/level:	Principal Investigator-Prehistoric	
	Archaeology PQS	
Approved by:		
District 10 EBC:	Julie Myrah	Date
	Environmental Branch Chief	

Attachment A: Archaeological Survey Report for the Carpenter Road at Whitmore Avenue Traffic Signalization CML-5938(225), Stanislaus County, California (Caltrans District 10)



Charlie Simpson BaseCamp Environmental, Inc. 115 South School Street, Suite 14 Lodi, CA 95240 Prepared For: Stanislaus County Department of Public Works 1716 Morgan Road Modesto, CA 95358

Prepared By: Shelly Davis-King, M.A., RPA Prehistoric and Historical Archaeology Davis-King & Associates Standard, CA 95373

Reviewed for Approval by: Ben Elliott, Principal Investigator-Prehistoric Archaeology Caltrans – District 10, Environmental Office Division of Planning, Local Assistance, and Environmental 1976 E. Dr. Martin Luther King Jr. Blvd. Stockton, CA 95205

Approved by: Julie Myrah Chief-Environmental Office Caltrans District 10: Division of Local Assistance, Planning and Environmental 1976 E. Dr. Martin Luther King Blvd., Stockton, CA 95201

USGS 7.5' Brush Lake Quadrangle map Survey acreage approximately 12 acres

August 2017

#### Archaeological Survey Report for the Carpenter Road at Whitmore Avenue Traffic Signalization CML-5938(225), Stanislaus County, California (Caltrans District 10)

### **Summary of Findings**

The County of Stanislaus (County) proposes to make intersection and roadway improvements to integrate turning lanes and signalize a newly-designed intersection with turn lanes at Carpenter Road and Whitmore Avenue. This project is intended to reduce vehicle idling time and number of stops in an effort to improve air quality, as well as to improve traffic safety and flow through the intersection. It is funded by the Congestion Mitigation and Air Quality (CMAQ) program, administered by the California Department of Transportation (Caltrans) for the Federal Highway Administration (FHWA). The project vicinity and location are illustrated in Figures 1 and 2 in Appendix A. The Area of Potential Effects (APE) is depicted in Figure 3 of Appendix A.

The intersection of Carpenter Road and Whitmore Avenue, located in Stanislaus County, California, is about a mile west of the most southerly portion of the County Seat, the City of Modesto. Existing traffic control is all-way stop signs and there are no segregated turning lanes at the intersection. The Carpenter Road/Whitmore Avenue intersection would be signalized and widened to accommodate existing traffic operations, including left turn lanes on all four approaches, and to provide lane transitions and needed shoulder area. Each approach will provide a through lane and a left-turn lane. Widening and required transitions will extend from the intersection center approximately 1200 feet north along all legs of the intersections. Signalization will involve the installation of foundations, poles and mast arms to support the proposed signal assemblies, street name signs and luminaires as well as control boxes and other related equipment. Equipment and materials staging for the project will occur within existing County road right-of-way (ROW) and acquired ROW in the northwest, southwest and southeast quadrants. Reconstruction and widening to the west of the Turlock Irrigation District (TID) Bridge 38C124 over the Lateral Number 1 will occur.

An archaeological survey was conducted in the APE by Shelly Davis-King on 19 July 2017. The survey area and immediately adjacent lands consists of a very modified landscape of asphalt roads, gravel and graded earthen paths, agricultural fields, underground utility lines, and a lined subsurface path associated with the TID Lateral Number 1 canal. Asphalt prevented inspection of the soil in the central portion of the APE, while the remainder was largely very sandy or silty alluvium. The pedestrian survey was conducted in fair weather conditions with no obstacles. No archaeological artifacts or features were noted beyond the asphalt roads themselves. Road litter less than 10 years of age was the only cultural debris noted in the APE. Significant native plants were absent from the terrain.

No concerns have been raised to date by Native American informants and no further archaeological work should be necessary. It is Caltrans' policy to avoid cultural resources whenever possible. Further investigations may be needed if the site[s] cannot be avoided by the project. If buried cultural materials are encountered during construction, it is Caltrans' policy that work stop in that area until a qualified archaeologist can evaluate the nature and significance of the find. Additional survey will be required if the project changes to include areas not previously surveyed.

#### Introduction

The archaeological survey was conducted in July 2017 on the areas indicated in Figures 1-3. The survey was conducted by Shelly Davis-King, M.A., RPA, who has been working as an archaeologist and anthropologist since 1967. Areas of expertise include Native American history and prehistory, historical archaeology, and ethnography.

### **Highway Project Location and Description**

The County proposes to make intersection and roadway improvements to integrate turning lanes and signalize a newly-designed intersection with turn lanes at Carpenter Road and Whitmore Avenue. The project is funded by the CMAQ program administered by Caltrans for FHWA. The intersection of the two roads is both south and west of the City of Modesto.

Existing traffic control is all-way stop signs and there are no segregated turning lanes at the intersection. The Carpenter Road/Whitmore Avenue intersection would be signalized and widened to accommodate existing traffic operations, including left turn lanes on all four approaches, and to provide lane transitions and needed shoulder area. Each approach will provide a through lane and a left-turn lane. Widening and required transitions will extend from the intersection center approximately 1200 feet north along all legs of the intersections. Signalization will involve the installation of foundations, poles and mast arms to support the proposed signal assemblies, street name signs and luminaires as well as control boxes and other related equipment. Equipment and materials staging for the project will occur within existing County ROW and one or two staging areas located on adjacent private lands. Widening of the TID Bridge 38C124 over the Lateral Number 1 will occur in consultation with TID. No new ROW is required.

The project is located in a relatively rural and agricultural setting due south and west of Modesto, but subdivisions and residences are encroaching. The project is in the central portion of the county, at an elevation of 75 feet above mean sea level. To the north, less than a mile from the project, the Tuolumne River flows, which historically flooded and likely overran the project area.

The APE for the project was established in consultation with Shoaib Ahrary, Project Manager Stanislaus County Public Works, Ben Elliott, Associate Environmental Planner-Archaeology Professionally Qualified Staff (PQS), and Parminder Singh, District Local Assistance Engineer, on 25 January 2017. The signed APE map is located in Appendix A of this report. The APE was established as an area generally defined by the current and proposed ROW of Carpenter Road and Whitmore Avenue extending approximately 1200 feet in all directions from the intersection. The APE encompasses the area where the project may have direct or indirect effects, including staging areas. The vertical APE is anticipated to be no greater than 2.5 feet.

## **Sources Consulted**

### Summary of Methods and Results

The Central California Information Center (CCIC) of the California Historical Resources Information System (CHRIS) was contacted and a record search of a ½-mile radius around the project was provided to S. Davis-King on 5 July 2016 (CCIC No.: 9868N). A summary of the CCIC search results is provided below and the letter is found in Appendix B. Included in the research was review of the following lists:

National Register of Historic Places [NRHP] (20 March 2014, most recent file at CCIC) Archaeological Determinations of Eligibility (nothing listed as of 20 March 2014) California Points of Historical Interest (nothing listed as of 20 March 2014) California Register of Historical Resources (nothing listed as of 20 March 2014) California Inventory of Historic Resources (nothing listed as of 20 March 2014) Caltrans Historic Highway Bridge Inventory (nothing listed as of 20 March 2014) California Historical Landmarks (nothing listed as of 20 March 2014)

No cultural resources were identified within the project APE nor the ½-mile search radius. There is a local bridge, 38C124, constructed in 1921 and modified in 1955, part of the TID Lateral Number 1, considered ineligible for the NRHP (Caltrans 2014). The GLO (1853-1854) plat indicated no development in the project APE or search radius.

There may have been one cultural resource investigation in the project APE (Peak & Associates 2006), but the CCIC is not clear on whether they looked at the project area or not. Two other reports have been prepared in the search radius. One (Clark 1988) appears to be an archaeological survey for a proposed Stanislaus County public safety center, while the second (Jorgensen 1977) is a historical article about Fairview School, located about 2900 feet east of the Carpenter/Whitmore intersection.

## Summary of Others who were Consulted

Background research included a letter of interest sent to the McHenry Museum and Historical Society, in Modesto. No response to the letter was received, and the when the telephone number is dialed, the phone rings without pickup. The letter is included in Appendix B.

The Native American Heritage Commission (NAHC) was contacted on 1 July 2016 to request an investigation of the Sacred Lands File and get a list of Native Americans potentially knowledgeable about the project. The response received on 5 July 2016 was that the record search of their Sacred Lands File failed to identify the presence of Native American cultural resources in a search radius of ½ mile (letter in Appendix B). The NAHC also provided a list of Native Americans who may have knowledge of resources in the project area. The list included four individuals from three tribes as discussed in the next section below.

### Summary of Native American Consultation

The NAHC list of Native American tribal groups who many have knowledge of resources in the project identified the Southern Sierra Miwok Nation (also known as the American Indian Council of Mariposa County), the North Valley Yokuts Tribe (also known as the Nototomne Yokuts), the Amah Mutsun Tribal Band. Letters describing the project and a copy of the draft APE map were sent to each of the three groups. Followup telephone calls were made in January 2017, but no concerns were raised. Additionally because of previous work in the area, some outreach was made to the Tule River Indian Tribe. On 20 August 2017 a copy of this ASR was supplied to each listed person for their review and comment. Details can be found in Appendix B, along with copies of the letters.

### Background

### Environment

The general environment of the project area is the Great Central Valley Belt (Storer and Usinger 1963). This vast lowland area becomes a true valley by virtue of its two mountain range boundaries: the Sierra Nevada on the east and the Coast Range on the west. Two parts of the valley, the San Joaquin and the Sacramento, form the southern and northern areas respectively. Their waters merge at the Delta near Suisun Bay, passing through the Coast Range and into San Francisco Bay. The area is quite hot in the summer, and often cold in the winter due to dense fogs that rise near the rivers. The waters in central California generally flow westerly from the Sierra Nevada, down through the foothills, and into the Central Valley. The Tuolumne River is the major watercourse in the area, and flows westerly to meet the San Joaquin River on its journey to the Delta. The Tuolumne River flood plain was formerly as much as a mile in width (e.g., Carlton 1906; GLO 1853-1854; USGS 1969), and was often considered to be marshy slough that could not be developed without reclamation.

All of the project area appears to have been modified for various transportation, irrigation, and agricultural activities that include streets, exotic plant orchards, underground and above-ground water delivery, and utilities. The survey area is very flat, as it may have been in prehistory, but also as a result of previous flooding and grading. The closest natural water course to the project is the aforementioned Tuolumne River. While historically the area may have been slough or savannah, today the project location is largely devoid of native plants and attendant animal regimes. Horse droppings and freshwater clam shells adjacent to the canal lateral were observed during the survey. Vegetation consists entirely of non-native grasses, ruderal weeds, and exotic ornamental landscaping plants and trees. Based on the environmental data, the likelihood of discovering prehistoric archaeological sites, including buried archaeological deposits, was considered minimal in the immediate project area.

## Prehistory

Much of the area's prehistory is difficult to decipher due to relatively recent sediments overlaying ancient landforms, and no clear chronology of any part of the Central Valley has yet been established. Roughly, the prehistoric sequence covers the Paleo-Indian, Archaic (Lower, Middle, and Upper), and Emergent periods. Although no Paleo-Indian remains have been found nearby as of yet, they are known in all areas around the project, especially in the ancient Pleistocene landscape areas where fluted points and crescents have been found (e.g., Beck 1971, Heizer 1938). These points tend to date to as early as 12,000 before present (B.P.). Following them in time are isolated finds and sites of the Lower Archaic, found throughout California dating perhaps as early as 10,000 B.P. Somewhat later in the Archaic, there was a warmer and drier climate change, with substantial changes in deposition of alluvium about 7000 B.P. Largely due to the alluvium, sites are rare from this period, and no dated components are located nearby (e.g., Meyer and Rosenthal 2010). Lower Archaic people were apparently highly mobile, but through time, groups became increasingly focused on a quite intensive and perhaps specialized subsistence base of fishing, gathering, and hunting.

Archaeological studies for this area indicate a gradual increase in native population, greater use of riparian and lacustrine resources, and tremendous change and variety in tool types. Hunting occurred with bow and arrows in the later period, having shifted from darts and spears, while fishing

became important at least seasonally (e.g., Lillard, Heizer, and Fenenga 1939). Waterfowl and small mammals supplemented the diet. Changes in the archaeological record suggest to some that a new group of people infiltrated the lower foothills and edges of the Central Valley during the last 1000 years or so. Generally considered to be the precursors of the ethnohistoric Northern Valley Yokuts, the new cultural traits are defined by more permanent (or recognizable) settlements indicated by relatively established or developed anthrosols, and baked clay "stones" probably used to cook mush in baskets. Most sites in the Central Valley have been leveled for agricultural purposes in the historic period. Occasionally today subsurface remains are located, but generally these are found during agricultural operations (e.g., deep ploughing), and rarely receive archaeological attention or investigation.

## Native American Ethnohistory

The rich environment of the Central Valley, especially here with a major river and sloughs nearby, was the homeland to thousands of Indians before contact. The population densities are said to have been abnormally high (e.g., Cook 1955b; Kroeber 1939, 1976).

The project area is generally considered to be in Northern Valley Yokuts territory (e.g. Kroeber 1976; Latta 1977; Powers 1976; Silverstein 1978), but it is possible that the area was used by a transitional group between the Northern Valley Yokuts and the Sierra Me-Wuk. Milliken (1997:203) suggests that the *Chuguea*, a bilingual Yokuts/Me-Wuk group at Mission Santa Clara in the 1820s, may have been located on the Tuolumne River near Hughson. This assessment, if correct, would place the project in Chuguea territory. To the northern side of the Tuolumne River, the *Gualensemne* (perhaps also called the *We-hillas*), also a Me-Wuk/Yokuts bilingual group at Santa Clara, occupied Dry Creek; it is this tribe who may have signed the 1851 treaty at Dent's Ferry (Heizer 1972:42).

By the time ethnogeographic information was gathered, few firm boundaries appear to have survived. Me-Wuk and Yokuts linguistic groups could have merged for survival or found affinity in the missions. Both groups, especially the Yokuts, were extremely disrupted by early contact with Caucasians during the Spanish-Mexican period beginning in the mid-1700s, with "missionization" and disease further destroying their lifestyle and population base. In 1833, malaria wiped out whole tribes and decimated the Valley Yokuts population (Cook 1955a); these stories of the annihilation and decimation of have been recounted elsewhere (Kroeber 1976; Latta 1977; Wallace 1978).

## History

Stanislaus County was named after the Mission Indian Estanislao, baptized by the Spanish padres and named for one of two Polish saints. The county was organized in 1854 from a part of Tuolumne County and is bounded on the north by the Stanislaus River, with the Tuolumne River coursing westerly from its southeast corner to join the San Joaquin River in the west. From San Joaquin County in 1860, Stanislaus County annexed a triangular area north of the Stanislaus River including Knights Ferry (Hoover, et al. 1990).

The finding of gold on the American River in January of 1848 provided the impetus for most settlement in the San Joaquin Valley. Trails and roads were quickly developed to reach the gold regions from all points of the compass, many of them traversing what is now Stanislaus County. The first settlements occurred at river crossings, where the high waters necessitated the construction of ferries to carry passengers, livestock, and freight. Communities quickly sprang up

around these crossings, providing lodging, sustenance, and services to travelers (Marvin and Davis-King 1995).

Entrepreneurs, disillusioned miners, and other settlers turned to agriculture as a means of providing a livelihood, reaping the benefits of providing produce to the burgeoning mining settlements eastward in the foothills. Initially propagating extensive stands of wheat, barley, and other dry land crops, settlers in the county also began breeding large herds of cattle and sheep. By the 1870s much of the county was under cultivation, and the remaining grasslands were occupied by the "cattle kings" (Napton 1981:20).

The first county seat established at Adamsville was moved to Empire City within a few months, to La Grange in 1855, in 1862 to Knight's Ferry, and finally to Modesto in 1872 (Hoover, et al. 1990). This movement reflected the change in the political importance of the river towns, mining centers, and finally, agricultural and transportation centers. The keys to the development of Stanislaus County, however, were always transportation and water.

Within a half mile of the project is the Fairview School, originally a one-room schoolhouse built in 1870 which educated students living south of the Tuolumne River all the way to the Merced County line (Jorgensen 1997). Whitmore Avenue is named for Daniel Whitmore who came to Stanislaus County in 1857, acquiring some 9000 acres in the area around Ceres and Hughson. Whitmore was a prominent wheat farmer, and owned the Ceres Flour Mill, the Modesto Ferry, and played a role in the development of the railroad and State Highway 99 (Davis-King 2001a, 2001b). Carpenter Road is named for the pioneer Carpenter family who settled near the San Joaquin River on a 2500 acre ranch, about 12 miles south of Modesto. In the late 1850s, the land near the major rivers in the Central Valley was considered suitable only for livestock, and the Carpenters grazed sheep along with 125 head of cattle and other animals (Brotherton 1982; Davis-King 2000, 2004). The original Carpenter Road generally followed range line south from Modesto to the north end of Section 31 (Township 6 South, Range 9 East). At this point the road turned to the west and crossed the San Joaquin River at Ward's Ferry, and was extended early in the 20th century.

## Field Methods

A pedestrian archaeological survey of the APE was conducted by archaeologist S. Davis-King on 19 July 2017. Survey consisted of a single pass along each side of the two roadways, both sides of the TID Lateral No 1, a 100-foot or so extended portion of an almond orchard which is proposed for the northwest turn lane, and a second pass on the western side of Carpenter Road because the proposed APE is wider than 20 meters. The asphalt roadways were not surveyed.

The survey area consisted of a very modified landscape as described previously, although ground visibility was very good. Some of the almond orchards had recently been irrigated and were flooded, hampering visibility. Nonetheless, survey confidence is high, with a very low potential for Native American resources. Historic maps and archival data also suggest that no remains of that era are likely in the survey area.

## Study Findings and Conclusions

There are no indications of archaeological or other cultural resources in the APE. No archaeological artifacts or features were noted. Recent road litter of less than ten years of age was

the only cultural debris noted. Native plants were absent from the terrain. No concerns were raised by the Native American participants and no further archaeological work should be necessary.

#### Unidentified cultural materials

If previously unidentified cultural materials are unearthed during construction, it is Caltrans' policy that work be halted in that area until a qualified archaeologist can assess the significance of the find. Additional archaeological survey will be needed if project limits are extended beyond the present survey limits.

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### Stanislaus County 4 Intersections Project

### Intersection 4: Carpenter Road at Whitmore Avenue

USGS 7.5' Brush Lake Quad, Township 4 South, Range 9 East, Sections 7, 18, and Township 4 South, Range 8 East, Sections 12, 13




Appendix B: Native American Heritage Commission Letter Letter to Native Americans Native American Contact Lo Caltrans Bridge Information



#### **CENTRAL CALIFORNIA INFORMATION CENTER**

California Historical Resources Information System Department of Anthropology – California State University, Stanislaus One University Circle, Turlock, California 95382 (209) 667-3307 - FAX (209) 667-3324

Alpine, Calaveras, Mariposa, Merced, San Joaquin, Stanislaus & Tuolumne Counties

Date:

7/5/2016

Records Search File No.: 9868N Access Agreement: #6 Project: Stanislaus County Intersection Improvements; Carpenter Rd. at Whitmore Ave. and Grayson/Crows Landing Roads

shellydk@frontiernet.net

Shelly Davis-King Davis-King & Associates P.O. Box 10 Standard, CA 95373

Dear Ms. Davis-King:

The Central California Information Center received your record search request for the project areas referenced above, located on the Brush Lake and Ceres 7.5' quadrangle in Stanislaus County. The following reflects the results of the records search for the project study area and radius:

As per data currently available at the CCaIC, the locations of resources/reports are provided in the following format: 🛛 custom GIS maps 🗇 shapefiles 🗇 hand-drawn maps

#### **Carpenter at Whitmore Summary Data:**

Resources within project area:	0 formally recorded; Bridge 38C124
Resources within 1/2 mi radius:	0
Reports within project area:	1 possible ST-06446
Reports within 1/2 mi radius:	2 ST-00860, 4930,

#### Grayson Road at Crows Landing Summary Data:

Resources within project area:	0
Resources within 1/2 mi radius:	15 P-50-000071, 73*, 2120, 2121, 2122, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2136 *copy already sent with CCaIC 9695N
Reports within project area:	5 ST-00859, 915, 5115*, 7775, 7943 *one of your reports

Resource Database Printout (list):	$\boxtimes$ enclosed	$\Box$ not requested	$\Box$ nothing listed
Resource Database Printout (details):	□ enclosed	⊠ not requested	$\Box$ nothing listed
Resource Digital Database Records:	$\Box$ enclosed	⊠ not requested	$\Box$ nothing listed
Report Database Printout (list):	⊠ enclosed	$\Box$ not requested	$\Box$ nothing listed
Report Database Printout (details):	$\Box$ enclosed	$\boxtimes$ not requested	$\Box$ nothing listed
Report Digital Database Records:	$\Box$ enclosed	⊠ not requested	$\Box$ nothing listed
Resource Record Copies:	🗵 enclosed	$\Box$ not requested	$\Box$ nothing listed
Report Copies:	$\Box$ enclosed	⊠ not requested	$\Box$ nothing listed
OHP Historic Properties Directory:	□ enclosed	□ not requested	⊠ nothing listed
Archaeological Determinations of Eligibility:	□ enclosed	□ not requested	$\boxtimes$ nothing listed
CA Inventory of Historic Resources (1976):	□ enclosed	$\Box$ not requested	$\boxtimes$ nothing listed
Caltrans Bridge Survey:	⊠ enclosed	□ not requested	$\Box$ nothing listed
Bridge 38C-124			
Ethnographic Information:	enclosed	oxtimes not requested	$\Box$ nothing listed
Historical Literature:	□ enclosed	⊠ not requested	□ nothing listed
Historical Maps:	□ enclosed	⊠ not requested	□ nothing listed
Local Inventories:	□ enclosed	$\Box$ not requested	oxtimes nothing listed
GLO and/or Rancho Plat Maps:	🗵 enclosed	□ not requested	nothing listed
T4S R8E, Sheet #44-242 (1853-1854), Sheet #44 T4S R9E, Sheet # 44-244 (1953-1854	-243 (1870)		
Shipwreck Inventory:	🗵 not availa	ble at CCIC; please	e go to
http://shipwrecks.slc.ca.gov/ShipwrecksDatabas	se/Shipwrecks	Database.asp	
Soil Survey Maps:	🗵 not availa	ble at CCIC; please	go to
http://websoilsurvey.nrcs.usda.gov/app/WebSoi	ilSurvey.aspx		

**Resources known to have value to local cultural groups:** None have been formally reported to the CCIC.

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the

report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

**Note:** Billing will be transmitted separately via email by our Financial Services office \*(\$488.80), payable within 60 days of receipt of the invoice.

Sincerely, lat

E. A. Greathouse, Coordinator Central California Information Center California Historical Resources Information System

\* Invoice Request sent to: Laurie Marroquin CSU Stanislaus Financial Services lamarroquin@csustan.edu

#### NATIVE AMERICAN HERITAGE COMMISSION

1550 Harbor Blvd., Suite 100 West Sacramento, CA 95691 (916) 373-3710 Fax (916) 373-5471



July 5, 2016

Shelly Davis-King, RPA Davis-King & Associates

Sent by Email: shellydk@frontiernet.net

RE: Proposed Stanislaus County Intersection Improvement Project, near the City of Modesto; Brush Lake and Ceres USGS Quadrangles, Stanislaus County, California

Dear Ms. Davis-King:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File was completed for the area of potential project effect (APE) referenced above with <u>negative</u> results. Please note that the absence of specific site information in the Sacred Lands File does not indicate the absence of Native American cultural resources in any APE.

I suggest you contact all of the listed Tribes. If they cannot supply information, they might recommend others with specific knowledge. The list should provide a starting place to locate areas of potential adverse impact within the APE. By contacting all those on the list, your organization will be better able to respond to claims of failure to consult. If a response has not been received within two weeks of notification, the NAHC requests that you follow-up with a telephone call to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from any of these individuals or groups, please notify me. With your assistance we are able to assure that our lists contain current information. If you have any questions or need additional information, please contact via email: gayle.totton@nahc.ca.gov.

Sincerely,

Gayle Totton, M.A., PhD. Associate Governmental Program Analyst

#### Native American Heritage Commission Tribal Consultation List Stanislaus County 7/5/2016

#### Amah MutsunTribal Band

Valentin Lopez, Chairperson P.O. Box 5272 Galt, CA, 95632 Phone: (916)743-5833 viopez@amahmutsun.org

Amah MutsunTribal Band

Edward Ketchum, 35867 Yosemite Ave Davis, CA, 95616 aerieways@aol.com

Costanoan Northern Valley Yokut

Costanoan

Yokut

Northern Valley

#### North Valley Yokuts Tribe

Katherine Erolinda Perez, Chairperson P.O. Box 717 Linden, CA, 95236 Phone: (209)887-3415 canutes@verizon.net

Costanoan Northern Valley Yokut

#### Southern Sierra Miwuk Nation

Lois Martin, Chairperson P.O. Box 186 Mariposa, CA, 95338 Phone: (209)742-6867

Miwok Northern Valley Yokut Paiute

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 Stanislaus County Intersection Improvement, Stanislaus County.

The Honorable Lois Martin Southern Sierra Miwuk Nation Post Office Box 186 Mariposa, CA 95338

RE: Stanislaus County, California Signalization Projects USGS Quadrangle: USGS 7.5' Brush Lake Quad Location: Township 4 South, Range 9 East, Sections 7, 18, and Township 4 South, Range 8 East, Sections 12, 13

Dear Chairperson Martin:

Stanislaus County, California is proposing to install traffic signals at the intersection of Carpenter Road at Whitmore Avenue (Federal Project CML-5938 (225). The project would improve traffic flow, create safer conditions, and would alleviate congestion. There is a proposed estimated subsurface excavation of five-13 feet in depth.

Davis-King & Associates (DKA) will be conducting an archaeological survey of the project area. Based on aerial photographs, the majority of the project has been paved with asphalt (road), has been graded and modified the transportation corridor, water conveyances, and agricultural activities. Construction would be within existing county right of way. The proposed work would use federal funding administered by the California Department of Transportation (Caltrans), and will be subject to federal historical preservation law.

Enclosed is a project description for this federally-entailed project, a project vicinity map, a portion of the Brush Lake 7.5 minute map that depicts the location of the proposed project, and a draft Area of Potential Effects map. DKA is consulting with you to determine if you have concerns about sites, sensitive areas, or other issues that should be addressed. We will followup with a telephone call after the survey is complete. Please let me know if you would like to visit the site, or otherwise have additional information. As is DKA's policy, I will be forwarding a copy of the draft Archaeological Survey Report for your review.

Thank you for your assistance.

Sincerely,

Shelly Davis-King, M.A., RRA 10039

enc.

P.O. Box 10 Standard, California 95373





Valentin Lopez, Chairperson Amah Mutsun Tribal Band Post Office Box 5272 Galt, CA 95632

RE: Stanislaus County, California Signalization Projects USGS Quadrangle: USGS 7.5' Brush Lake Quad Location: Township 4 South, Range 9 East, Sections 7, 18, and Township 4 South, Range 8 East, Sections 12, 13

Dear Chairperson Lopez:

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Thank you for your assistance.

Sincerely,

helly plavis 7

Shelly Davis-King, M.A., R.P.A. 10039

enc.

Ф.О. Вох 10 Standard, California 95373





Mr. Edward Ketchum Amah Mutsun Tribal Band 35867 Yosemite Avenue Davis, CA 95616

RE: Stanislaus County, California Signalization Projects USGS Quadrangle: USGS 7.5' Brush Lake Quad Location: Township 4 South, Range 9 East, Sections 7, 18, and Township 4 South, Range 8 East, Sections 12, 13

Dear Mr. Ketchum:

Stanislaus County, California is proposing to install traffic signals at the intersection of Carpenter Road at Whitmore Avenue (Federal Project CML-5938 (225). The project would improve traffic flow, create safer conditions, and would alleviate congestion. There is a proposed estimated subsurface excavation of five-13 feet in depth.

Davis-King & Associates (DKA) will be conducting an archaeological survey of the project area. Based on aerial photographs, the majority of the project has been paved with asphalt (road), has been graded and modified the transportation corridor, water conveyances, and agricultural activities. Construction would be within existing county right of way. The proposed work would use federal funding administered by the California Department of Transportation (Caltrans), and will be subject to federal historical preservation law.

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Thank you for your assistance.

Sincerely,

lu hlavis

Shelly Davis-King, M.A., R.P.A. 10039

enc.

P.O. Box 10 Standard, California 95373





Ms. Katherine Erolinda Perez Post Office Box 717 Linden, CA 95236

RE: Stanislaus County, California Signalization Projects USGS Quadrangle: USGS 7.5' Brush Lake Quad Location: Township 4 South, Range 9 East, Sections 7, 18, and Township 4 South, Range 8 East, Sections 12, 13

Dear Ms. Perez:

Stanislaus County, California is proposing to install traffic signals at the intersection of Carpenter Road at Whitmore Avenue (Federal Project CML-5938 (225). The project would improve traffic flow, create safer conditions, and would alleviate congestion. There is a proposed estimated subsurface excavation of five-13 feet in depth.

Davis-King & Associates (DKA) will be conducting an archaeological survey of the project area. Based on aerial photographs, the majority of the project has been paved with asphalt (road), has been graded and modified the transportation corridor, water conveyances, and agricultural activities. Construction would be within existing county right of way. The proposed work would use federal funding administered by the California Department of Transportation (Caltrans), and will be subject to federal historical preservation law.

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Thank you for your assistance.

Sincerely,

helly plavis tub

Shelly Davis-King, M.A., RPA 10039

enc.

P.O. Box 10 Standard, California 95373







Chronological List of Native American Outreach Stanislaus County Signalization Projects Carpenter Road at Whitmore Avenue (CW) Grayson Road at Crows Landing Road (GC) Geer Road at Whitmore Avenue (GW) Geer Road at Santa Fe Avenue (GSF) 29 March 2016- 22 August 2017/Page 1

Date	Who? Affiliation?	Method	Substance
2016 March 29	Native American Heritage Commission	letter/email	Requested Sacred Lands search and a list of knowledgeable Native Americans for Geer Road at Whitmore Avenue (GW) and Geer Road at Santa Fe Avenue (GSF)
2016 April 4	Native American Heritage Commission	letter/email	Received Sacred Lands search and a list of knowledgeable Native Americans for GW and GSF
2016 July 1	Native American Heritage Commission	letter/email	Requested Sacred Lands search and a list of knowledgeable Native Americans for Carpenter Road at Whitmore Avenue (CW) and Grayson Road at Crows Landing Road (GC)
2016 July 5	Native American Heritage Commission	letter/email	Received Sacred Lands search and a list of knowledgeable Native Americans for CW and GC
2016 December 14	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	letter	Sent project description and project maps for GW and GSF, asking for information and any concerns.
2016 December 14	Nototomne Yokuts/Katherine Perez	letter	Sent project description and project maps for GW and GSF, asking for information and any concerns.
2016 December 14	Tule River Indian Tribe/Chairperson Peyron/Kerri Vera, Environmental Department/Joey Garfield, Tribal Archaeological	letter	Sent project description and project maps for GW and GSF, asking for information and any concerns.
2016 December 14	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	letter	Sent project description and project maps for GC, asking for information and any concerns.
2016 December 14	Nototomne Yokuts/Katherine Perez	letter	Sent project description and project maps for GC, asking for information and any concerns.
2016 December 14	Amah Mutsun Tribal Band/Valentine Lopez	letter	Sent project description and project maps for GC, asking for information and any concerns.
2016 December 14	Amah Mutsun Tribal Band/Edward Ketchum	letter	Sent project description and project maps for GC, asking for information and any concerns.
2016 December 14	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	letter	Sent project description and project maps for CW, asking for information and any concerns.



Chronological List of Native American Outreach Stanislaus County Signalization Projects Carpenter Road at Whitmore Avenue (CW) Grayson Road at Crows Landing Road (GC) Geer Road at Whitmore Avenue (GW) Geer Road at Santa Fe Avenue (GSF) 29 March 2016- 22 August 2017/Page 2

Date	Who? Affiliation?	Method	Substance
2016 December 14	Nototomne Yokuts/Katherine Perez	letter	Sent project description and project maps for CW, asking for information and any concerns.
2016 December 14	Amah Mutsun Tribal Band/Valentine Lopez	letter	Sent project description and project maps for CW, asking for information and any concerns.
2016 December 14	Amah Mutsun Tribal Band/Edward Ketchum	letter	Sent project description and project maps for CW, asking for information and any concerns.
2017 January 27	Nototomne Yokuts/Katherine Perez	telephone	Telephoned Ms. Perez to let her know that I will send her a copy of the GSF ASR, and to make sure she did not have any additional comments or concerns. Left message on her answering machine that there were three other projects for her to review (GC, CW, and GW).
2017 January 27	Tule River Indian Tribe/Kerri Vera, Environmental Department	telephone	Telephoned Ms. Verra at the Tribal Environmental Department, and talked about the GC, GSF, CW, and GW projects, letting her know that I will send a pdf of the GSF ASR. I told her the results of the survey were negative. She said that while this area remains one of concern, the Tribe does not generally respond to information requests unless no one else responds or if there is something very sensitive.
2017 January 27	Tule River Indian Tribe/Joey Garfield, Tribal Archaeological	telephone	Telephoned Mr. Garfield at his Tribal Environmental Archaeology office, but he has left that department and is now in the Tribal Office. Called that number and left a message with the receptionist about GSF, GC, CW.
2017 February 6	Nototomne Yokuts/Katherine Perez	email	Sent Ms. Perez a pdf copy of the HPSR and ASR for GSF
2017 February 6	Tule River Indian Tribe/Kerri Vera, Environmental Department	email	Sent the Tule River Tribe a copy of the HPSR and ASR for GSF
2017 February 6	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	US mail	Sent the Southern Sierra Miwok a paper copy of the HPSR and ASR for GSF
2017 February 7	Nototomne Yokuts/Katherine Perez	email	Sent Ms. Perez a pdf copy of the HPSR and ASR for GW
2017 February 7	Tule River Indian Tribe/Kerri Vera, Environmental Department	email	Sent the Tule River Tribe a copy of the HPSR and ASR for GW
2017 February 7	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	US mail	Sent the Southern Sierra Miwok a paper copy of the HPSR and ASR for GW



Chronological List of Native American Outreach Stanislaus County Signalization Projects Carpenter Road at Whitmore Avenue (CW) Grayson Road at Crows Landing Road (GC) Geer Road at Whitmore Avenue (GW) Geer Road at Santa Fe Avenue (GSF) 29 March 2016- 22 August 2017/Page 3

Date	Who? Affiliation?	Method	Substance
2017 August 22	Nototomne Yokuts/Katherine Perez	US mail	Sent copy of CW ASR asking for review and comment.
2017 August 22	Amah Mutsun Tribal Band/Valentine Lopez	US mail	Sent copy of CW ASR asking for review and comment.
2017 August 22	Amah Mutsun Tribal Band/Edward Ketchum	US mail	Sent copy of CW ASR asking for review and comment.
2017 August 22	Southern Sierra Miwok Nation Tribal Office/Chairperson Lois Martin	US mail	Sent copy of CW ASR asking for review and comment.

1 February 2017

McHenry Museum & Historical Society Board of Directors 1402 I Street Modesto, CA 95354

RE: Carpenter Road at Whitmore Avenue Traffic Signalization CML-5938(225) Crows Landing Road at Grayson Road Traffic Signalization CML-5938(223) Stanislaus County Intersection Improvement Project USGS Quadrangle/s: 7.5' Brush Lake and Ceres Location: T4S, R9E, Sections 7, 18, 20, 21, 28, 29 and T4S, R8E, Sections 12, 13

Dear Board of Directors:

Attached is a portion of the Brush Lake and Ceres 7.5 minute map that depicts the location of two proposed Stanislaus County intersection improvements, one at Carpenter Road and Whitmore Avenue and the other at Grayson and Crows Landing roads. The projects will include widening of the roadways, creation of dedicated turn lanes, traffic signals, and other improvements to assist with traffic flow and air quality. Davis-King & Associates (DKA) will be conducting a cultural resources survey of the project area.

The proposed work would be constructed by the County using federal funding administered by the California Department of Transportation. Construction would be within existing Stanislaus County right-of-way, in largely agricultural areas east and south of the city Hughson. It does not appear that any General or Specific Plan amendments are proposed.

DKA is consulting with you to discover if your organization has any information or concerns regarding these areas, or have information that pertains to the projects. If so, please respond in writing to the address below, by telephone to the number below, or to me at <u>shellydk@frontiernet.net</u> within the next 30 days. If we do not hear from you in this time we will assume you have no concerns. Thank you for your assistance.

Sincerely,

telly plavis tig

Shelly Davis-King, R.P.A. 10039 enc.

P.O. Box 10 Standard, California 95373





## CCaIC 9868N Carpenter Road at Whitmore Avenue Reports and Bridge





# Structure Maintenance & Investigations

# September, 2013 SM&I É.

Local Agency Bridge List

Stanislaus County District 10

# - Loise L CL . 5

COUNT	y of Stanisiaus			~									On/Off	0n/Off	Functional
Bridge Numher	Feature Intersected	Facility Carried	Loation	NBI Bridge	SD/FO Ré	suff H ating Ir	ealth idex PCI	Yea Bui	t AD7	Lane	Road s Width	Length /	Federal Aid System	NHS Highway	Class
		AMERICAN AVENI IF	0 3 MI S OF I ADD ROAD	NBI Bridge	1-	72.4 7	0.3	193	5 25!	5 2	6.3	თ	Off	Off	09 Rural Local
38C0111	GASBURG CREEK	OLD LA GRANGE ROAD	0.3 MI E NEW	NBI Bridge	~	32.5	00	191	6 71	2	6.5	26	Off	Off	09 Rural Local
			LAGRANGE RD	NBI Bridge	~	37.2	00	193	9 923	9 2	9.8	20	On	Off	17 Urban Collector
3800113	MID MAIN CANAL	CLANIBEL ROAD	0.1 MI W/O TERMINAL	NBI Bridge	FO	30.4 9	3.56	195	8 1169	3 2	9.5	33	NO	Off	07 Rural Mjr Collector
3800116	MIDIATERAL#5	PARADISE ROAD	AVE 0.9 MI NW SHILOH RD	NBI Bridge	~	36.3 9	9.85	192	5 379	5 2	10.2	11	On	Off	07 Rural Mjr Collector
2800117	CALIFORNIA	HOWARD ROAD	0.7 MI E OF I-5	NBI Bridge	0,	94.6 9	8.8	196	5 182	7 2	9.8	54	On	Off	07 Rural Mjr Collector
3800118	AQUEDUCT DELTA-MENDOTA	HOWARD ROAD	1.5 Miles East of I-5	NBI Bridge	•	65.0 8	4.25	194	7 182	7 2	7.3	32	On	Off	07 Rural Mjr Collector
2800132	CANAL TID LATERAL #2	CARPENTER ROAD	AT REDWOOD ROAD	NBI Bridge		93.3 9	9.19	192	3 520	0 2	9.8	7	On	Off	07 Rural Mjr
38C0124	TID LATERAL #1	CARPENTER ROAD	JUST N/O WHITMORE	NBI Bridge	OS	74.0 6	8.26	192	1 659	7 2	10.0	11	On	n	14 Urban Other Princ
38C0125	CERES MAIN SPWY	НАТСН КОАD	AVENUE JUST W/O FAITH HOME	NBI Bridge		98.4 8	0.48	191	6 700	0 2	26.1	7	ЧÖ	Off	07 Rural Mjr Collector
			ROAD	O NBI Bridge		78.3 6	8.28	192	7 168	7 2	9.7	13	NO	Off	17 Urban Collector
38C0141 38C0141	UP RR, GOLDEN STATE	E GOLDEN STATE BLVD	1/8 MI N MERCED CO	NBI Bridge	FO	61.5 9	9.02 100	193	8 1000	0 4	15.1	381	On	Off	14 Urban Other Princ
38C0144	DAWSON LAKE	NEW LA GRANGE ROAD	LINE 0.8 MI S STATE ROUTE	NBI Bridge	SD	92.6	100	197	5 184	4 2	10.2	31	On	Off	07 Rural Mjr Collector
38C0145	TUOLUMNE RIVER	LA GRANGE ROAD	132 0.25 MI N STATE ROUTE	E NBI Bridge	SD	82.1 9	7.91	197	9 222	0 2	9.8	145	N	Off	07 Rural Mjr Collector
38C0146	M.I.D. MAIN CANAL	NEW LA GRANGE ROAD	132 0.8 MI N/O SR 132	NBI Bridge		93.1 7	9.21	197	7 222	0 2	13.3	18	On	Off	07 Rural Mjr Collector
LIFUJOC	MID MAIN CANAL	WELL SFORD ROAD	0.4 MI N PARKER ROAD	NBI Bridge		90.8 9	9.95	192	8 161	0 2	10.5	42	Off	Off	09 Rural Local
38C0150	T.I.D. CERES MAIN	GILBERT ROAD	JUST S/O HATCH RD	NBI Bridge	FО	66.8 9	9.79	192	4 42	0 2	5.9	15	Off	Off	09 Rural Local
38C0152	CANAL T.I.D. CERES MAIN	7TH STREET	JUST S/O HATCH ROAD	NBI Bridge		97.8	100	199	0 250	0 2	9.8	14	Off	Off	09 Rural Local
38C0154	CANAL S SAN JOAQUIN MAIN	PLEASANT VALLEY RD	0.3 MI E OF VICTORY	NBI Bridge	SD	54.6 9	9.27	19(	35	0 2	9.9	26	Off	Off	09 Rural Local
38C0155	CANAL T.I.D. CERES MAIN	SWANSON ROAD	1.0 MI N WHITMORE RD	NBI Bridge	БŌ	70.0 8	7.64	19,	45 25	0 2	5.8	17	Off	Off	09 Rural Local
38C0156	CANAL T.I.D. MAIN CANAL	LAKE ROAD	0.5 MI E OF HICKMAN	NBI Bridge		93.1	100	19	20 150	0 2	9.9	20	Off	Off	08 Rural min Collector
3900457	TID MAIN CANAL	MONTPELIER ROAD	AT DALLAS RD	NBI Bridge	FO	76.9	0.32	19	50 7C	0 2	6.2	25	Off	Off	09 Rural Local
38C0 158	T.I.D. MAIN CANAL	LAMPLEY ROAD	0.2 MI N/O LAKE RD	NBI Bridge	FO	61.4	100	19	35 30	2 2	6.0	24	Off	Off	09 Rural Local
	localbriist.rdf	Data prese	nted here is for information onl	y. It should not	be used to	determi	ne the officia	l status	of a bridge	's eligib	lity for f	inding.		Ľ	lev 10/3/2012

Page 894

localbrlist.rdf

# Caltrans

### Structure Maintenance & Investigations

Historical Significance - Local Agency Bridges



January 2014

- A MARINE		District 10			
Stanislau	s County				2
Bridge Number	Bridge Name	Location	Historical Significance	Year Built	Year Wid/Ext
38C0062	M.I.D. LATERAL #4	S/O KANSAS	5. Bridge not eligible for NRHP	1914	
38C0064	BRIGGSMORE ROAD OH	SPRR & 9TH STREET	5. Bridge not eligible for NRHP	1976	
38C0065	BECKWORTH ROAD OH	W OF STATE RTE 99	5. Bridge not eligible for NRHP	1976	
38C0068	M.I.D. LATERAL #6	0.4 MI S/O BROADWAY	5. Bridge not eligible for NRHP	1938	
38C0069	M.I.D. LATERAL #6	0.4 MI S/O BROADWAY	5. Bridge not eligible for NRHP	1912	1927
38C0072	HIGH LINE CANAL	1.85 MI NW OF KEYES RD	5. Bridge not eligible for NRHP	1966	
38C0073	DRY CREEK	0.8 MI S CLARIBEL ROAD	2. Bridge is eligible for NRHP	1925	1979
38C0076	M.I.D. MAIN CANAL	0.9 MI NW SR 132	5. Bridge not eligible for NRHP	1920	1961
38C0078	CLARIBEL LATERAL	0.5 MI N/O CLARIBEL RD	5. Bridge not eligible for NRHP	1920	1963
38C0079	SSJID CANAL	0.1 MI NW CLEVELAND AVE	5. Bridge not eligible for NRHP	1920	1960
38C0080	LONE TREE CREEK	0.68 MI S/E LONE TREE RD	5. Bridge not eligible for NRHP	1934	
38C0083	T.I.D. UPPER LATERAL #3	0.7 MI NW OF ZEERING RD	5. Bridge not eligible for NRHP	1924	1962
38C0087	M.I.D. MAIN CANAL	0.4 MI S/O CLARIBEL ROAD	5. Bridge not eligible for NRHP	1954	1981
38C0088	T.I.D. CERES MAIN CANAL	0.15 MI E/O MITCHELL RD	5. Bridge not eligible for NRHP	1982	
38C0090	T.I.D. MAIN CANAL	0.8 MI W HICKMAN RD	5. Bridge not eligible for NRHP	1923	1962
38C0091	T.I.D. MAIN CANAL	1.2 MI N WHITMORE AVE	5. Bridge not eligible for NRHP	1924	1959
38C0092	T.I.D. CERES MAIN CANAL	JUST S/O HATCH RD	5. Bridge not eligible for NRHP	1925	2007
38C0094	CALIFORNIA AQUEDUCT	0.43 MI E OF I-5	5. Bridge not eligible for NRHP	1964	
38C0095	DELTA-MENDOTA CANAL CPM 046.84	2.0 MILES EAST OF I-5	4. Historical Significance not determined	1948	
38C0096	CCID MAIN CANAL	0.5MI E SR33, @ ARMSTRONG	5. Bridge not eligible for NRHP	1953	
38C0098	T.I.D. LOWER LATERAL #4	0.5 MI N/O W. MAIN STREET	5. Bridge not eligible for NRHP	1925	
38C0101	DELTA-MENDOTA CANAL CPM 029.19	0.55 MI WEST OF MCCRACKEN	4. Historical Significance not determined	1946	
38C0104	SALADO CREEK	1.7 MI E/O I-5, W/O AE AV	5. Bridge not eligible for NRHP	1920	2001
38C0105	T.I.D. MAIN CANAL	1.1 MI W/O SANTA FE AVE	5. Bridge not eligible for NRHP	1919	1961
38C0106	T.I.D. MAIN CANAL	0.5 MI E/O SANTA FE AVE	5. Bridge not eligible for NRHP	1920	1960
38C0107	M.I.D. LATERAL #5	0.4 MI S OF CALIF AVENUE	5. Bridge not eligible for NRHP	1920	
38C0108	M.I.D. LATERAL #6	0.3 MI N MURPHY/BACON RD	5. Bridge not eligible for NRHP	1922	1990
38C0109	M.I.D. MAIN CANAL	0.5 MI S OF LADD ROAD	5. Bridge not eligible for NRHP	1925	1962
38C0110	M.I.D. MAIN CANAL	0.3 MI S OF LADD ROAD	5. Bridge not eligible for NRHP	1935	5
38C0111	GASBURG CREEK	0.3 MI E NEW LAGRANGE RD	5. Bridge not eligible for NRHP	1916	1949
38C0113	M.I.D. LATERAL #6	0.4 MI E COFFEE ROAD	5. Bridge not eligible for NRHP	1939	1959
38C0114	M.I.D. MAIN CANAL	0.1 MI W/O TERMINAL AVE	5. Bridge not eligible for NRHP	1958	3
38C0116	M.I.D. LATERAL #5	0.9 MI NW SHILOH RD	5. Bridge not eligible for NRHP	1925	5 1963
38C0117	CALIFORNIA AQUEDUCT	0.7 MI E OF I-5	5. Bridge not eligible for NRHP	1965	5
38C0118	DELTA-MENDOTA CANAL CPM 032.61	1.5 Miles East of I-5	4. Historical Significance not determined	1947	7
38C0123	T.I.D. LATERAL #2	AT REDWOOD ROAD	5. Bridge not eligible for NRHP	1923	3 1960
38C0124	T.I.D. LATERAL #1	JUST N/O WHITMORE AVENUE	5. Bridge not eligible for NRHP	1921	1 1955
38C0125	CERES MAIN SPILLWAY	JUST W/O FAITH HOME ROAD	5. Bridge not eligible for NRHP	1916	5 2007
38C0127	M.I.D. LATERAL #3	0.2 MI W/O OAKDALE RD	5. Bridge not eligible for NRHP	1969	9
38C0128	MORTON STREET UC	0.8 MI NE OF YOSEMITE BL	5. Bridge not eligible for NRHP	1950	D
38C0130	M.I.D. LATERAL #4	0.1 MI N OF MORRIS AVE	5. Bridge not eligible for NRHP	1936	6
38C0131	M.I.D. LATERAL #4	DIAG @ INTERST OF MORRIS	5. Bridge not eligible for NRHP	1974	4
38C0132	M.I.D. LATERAL #4	0.15 M N/O NEEDHAM	5. Bridge not eligible for NRHP	193	7 1963

hs\_local.rdf

### APPENDIX D INITIAL SITE ASSESSMENT

#### **INITIAL SITE ASSESSMENT**

#### Whitmore Avenue and Carpenter Road Intersection Project Stanislaus County, California

Prepared By:



1100 Corporate Way, Suite 230 Sacramento, CA 95831

> September 7, 2016 Job No. 16-254.1





Corporate Office: 1100 Corporate Drive, Suite 230 | Sacramento, CA 95831 | (916) 455-4225 Modesto: 1165 Scenic Drive, Suite B | Modesto, CA 95350 | (209) 312-7668 Pleasanton: 6200 Stoneridge Mall Road, Suite 330 | Pleasanton, CA 94588 | (925) 401-3515 Rocklin: 4220 Rocklin Road, Suite 1 | Rocklin, CA 95677 | (916) 455-4225 Ukiah: 100 North Pine Street | Ukiah, CA 95482 | (707) 240-4400

16-254.1 September 12, 2016

Mr. Ed Noriega, PE Mark Thomas & Company 7571 North Remington Avenue, Suite 102 Fresno, California 93711

#### Subject: INITIAL SITE ASSESSMENT Whitmore Avenue and Carpenter Road Intersection Project Stanislaus County, California

Dear Mr. Noriega:

Crawford & Associates, Inc. has prepared this Initial Site Assessment for the Whitmore Avenue and Carpenter Road Intersection Project in Stanislaus County, California. The purpose of this assessment is to identify and provide a preliminary assessment of the potential impacts of known or potential Recognized Environmental Conditions within the study area that may influence design and construction of the project.

We include an executive summary, property information, records review, reconnaissance, findings, recommendations, and limitations in this report.

We appreciate the opportunity to be on your team for the Whitmore Avenue and Carpenter Road Intersection Project. Please call us if you have questions or comments.

Sincerely,

**CRAWFORD & ASSOCIATES, INC.** 

Stephen J. Carter P.G. #5577 Senior Geologist Thomas E. Ballard P.G. #7299, C.H.G. #961 Hydrogeologist



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#### EXECUTIVE SUMMARY

Crawford & Associates, Inc. (CAInc) performed an Initial Site Assessment (ISA) for the Whitmore Avenue and Carpenter Road Intersection Project in Stanislaus County, California. The proposed project consists of reconstruction of the intersection, including addition of turn lanes. The project also includes replacement of the Carpenter Road bridge of the Lateral No. 2½ canal, realignment of the overhead power lines.

The study area subject to this ISA includes the Whitmore Avenue and Carpenter Road intersection and adjacent area as shown in Figure 1 (Appendix A).

The Whitmore Avenue and Carpenter Road intersection has been established for more than 100 years. During this time, properties adjacent to and in the vicinity of the project Area of Potential Effect (APE) have been used for primarily agricultural and rural residential.

The purpose of this assessment is to identify recognized soil or groundwater contamination and hazardous material issues that may affect the planned project improvements. Records reviewed during this study identified five facilities within a mile of the subject intersection that had actual or potential contamination issues. In addition, records indicate there have been six clandestine drug lab waste dumping events in the vicinity of the project intersection. Our review of these records suggest that none of the facilities or clandestine drug lab dumping events is likely to have impacted the project APE.

Review of historical topographic maps and aerial photographs of the site and vicinity did not identify any conditions to indicate that further investigation is warranted. During the site reconnaissance, the only issue of potential concern was the Carpenter Road bridge over the Lateral No. 2½ canal. CAInc is recommending that the bridge be evaluated by a qualified professional for the presence of asbestos and asbestos-containing materials. CAInc also recommends that samples of paint from the bridge and surrounding soil be tested for the presence of lead above threshold concentrations. Finally, CAInc is recommending that soil at the intersection be screened for aerially-deposited lead.

The following general hazardous materials or environmental concerns are typical of similar projects and have been evaluated in this assessment. A detailed discussion is provided in Section 5.2.

- Asbestos Containing Material (ACM)
- Lead-based Paint
- Chemically Treated Wood
- Thermoplastic Traffic Striping
- Naturally Occurring Asbestos (NOA)
- Transformers
- Agricultural Chemicals (Pesticides/Herbicides)
- Aerially Deposited Lead (ADL)
- Petroleum Hydrocarbons

This report identifies recognized environmental conditions and general hazardous materials issues that may be present at the site, and provides recommendations for further investigation. Additional research and assessment may provide more certainty on conditions to be encountered during demolition and construction.



#### 1 INTRODUCTION

#### 1.1 PURPOSE

The following report summarizes an Initial Site Assessment (ISA) performed by Crawford & Associates, Inc. (CAInc) for the Whitmore Avenue and Carpenter Road Intersection Project in Stanislaus County, California. This ISA was prepared for use by Stanislaus County for this specific project in accordance with the agreement between Mark Thomas & Company (MTCo) and CAInc. The purpose of this ISA is to help identify potential or known hazardous materials, hazardous waste, and/or contamination (recognized environmental conditions) at the project site. Site figures are included in Appendix A. Photographs are included in Appendix B.

We use the term Recognized Environmental Condition (REC) consistent with ASTM E1527-13. ASTM E1527-13 defines REC as:

"the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

#### 1.2 SCOPE OF SERVICES

CAInc completed the following tasks to prepare this Initial Site Assessment:

- Conducted limited reconnaissance of the intersection and vicinity.
- Initiated a search request with Environmental Data Resources, Inc. (EDR) to search federal, state, and local regulatory agency databases to determine whether areas of environmental concern exist on or near the project site. Search distances ranged between <sup>1</sup>/<sub>8</sub> and one mile from the project site, depending on the database.
- Reviewed available information to assess past and present activities conducted within the project study area and assessed the potential for hazardous materials impact.
- Reviewed historical aerial photographic coverage and topographic map coverage of the project area and vicinity for indications of potential sources of contamination.
- Performed review of federal, state, and county records for indications of the use, misuse, or storage of hazardous and/or potentially hazardous substances on or near the site.
- Reviewed the site geology.
- Performed a limited review of documents provided on the State of California's GeoTracker website.

#### 1.3 PROJECT DESCRIPTION

The project includes the following proposed improvements:

- A traffic signal at the intersection,
- Expand or replace the existing bridge over the MID Lateral 2,
- New pavement sections and/or pavement rehabilitation, and
- Aboveground utility realignments.



The project will include roadway widening along Carpenter Road and Whitmore Avenue. Widening along Carpenter Road will extend about 900 ft north and 850 ft south of Whitmore Avenue. Widening along Whitmore Avenue is about 940 ft west to 800 ft east of Carpenter Road.

#### 2 PHYSICAL SETTING

#### 2.1 DATABASE SEARCH

The following physical setting source records were searched by EDR to provide data for this section of the report:

#### **Topographic Information**

- USGS 7.5' Digital Elevation Model (DEM)
- Current USGS 7.5 Minute Topographic Map

#### **Hydrologic Information**

- Flood Zone Data
- NWI National Wetlands Inventory
- State Wetlands Data: Wetland Inventory

#### Hydrogeologic Information

• AQUIFLOW<sup>®</sup> Information System

#### **Geologic Information**

- Geologic Age and Rock Stratigraphic Unit
- STATSGO State Soil Geographic Database
- SSURGO Soil Survey Geographic Database

#### Local/Regional Water Agency Records

- FEDERAL WATER WELLS
  - PWS Public Water Systems
  - PWS ENF Public Water Systems Violation and Enforcement Data
  - USGS Water Wells USGS National Water Inventory System (NWIS)
- STATE RECORDS
  - Water Well Database
  - California Drinking Water Quality Database

#### **Other State Database Information**

- California Oil and Gas Well Locations
- State Database: CA Radon
- Area Radon Information
- EPA Radon Zones
- Airport Landing Facilities
- Epicenters
- California Earthquake Fault Lines



#### 2.2 PROJECT LOCATION

The intersection of Whitmore Avenue and Carpenter Road is located in a semi-rural area at the southern edge of Modesto, approximately 2.5 miles west of Ceres. Carpenter Road is aligned north and south, Whitmore Road east and west. The project extents and APE are shown on Figure 1. The project site lies at the intersection of Sections 12 and 13 of T4S R8E, and Sections 7 and 18 of T4S, R9E. The site coordinates are 37.595056°N, 121.030260°W and the approximate elevation of the road is 88 feet, according to Google Earth.

#### 2.3 GEOLOGIC CONDITIONS

The project is located on the eastern side of the San Joaquin Valley portion of California's Central Valley. The San Joaquin Valley is a broad geosynclinal trough bounded by the Coast Ranges to the west, the Sierra Nevada to the east, the Sacramento-San Joaquin River Delta in the north, and the Tehachapi Mountains to the south. The San Joaquin Valley is characterized by flat-lying deposits of predominantly Quaternary age, comprising unconsolidated to semi-consolidated, non-marine sedimentary deposits of fluvial, lacustrine and alluvial terrace origin<sup>1</sup>.

Published geologic mapping<sup>2</sup> shows the project site and vicinity to be underlain by Modesto Formation. The Modesto Formation typically consists of alluvial materials with interbedded layers of silts and sands. The site is not located within a Alquist-Priolo Seismic Hazard Zone<sup>3</sup>. No evidence of significant hazards (such as faulting, settlement, very soft soils, severe erosion, subsidence) was observed during the reconnaissance. The EDR report indicates soils in the vicinity of the APE are mapped as Dinuba sandy loam, Hanford sandy loam and Tujunga loamy sand. See Figure 2 for a regional geologic map, and Figure 3 for a fault map.

#### 2.4 GROUNDWATER ELEVATIONS

Surface waters in the general vicinity include the Tuolumne River and concrete-lined irrigation canals. The Tuolumne River is located approximately 0.9 mile to the north and 1.5 miles to the west. Information presented in the EDR report indicates the northern portion of the project APE extends into a FEMA-designated 500-year floodplain<sup>4</sup> (this floodplain boundary is approximately where the Lower Lateral No. 2½ turns away from Carpenter Road to toward the east; see figure in EDR report).

The EDR search identified one Federal USGS well within ¼ to ½ mile of the project site, and three wells within ½ to 1 mile. The EDR search also identified one State Database well within ¼ to ½ mile of the project site, and three wells within ½ to 1 mile. The uses of these wells is reported as unknown. The EDR report included depth to water data for the Federal USGS well. CAInc attempted to obtain the most recent depth to water data for the remaining wells was obtained from State's Water Data Library<sup>5</sup>; depth-to-water information could only be found for one of the State wells. The depth to water measurements for these wells are summarized in Table 1. A map showing the locations of these wells is

<sup>&</sup>lt;sup>5</sup> http://www.water.ca.gov/waterdatalibrary/



<sup>&</sup>lt;sup>1</sup> Jennings, C.W. 1997, Geologic Map of California, 1:750,000, California Geological Survey, (updated by C. Gutierrez, W. Bryant, G. Saucedo and C. Wills, 2010).

<sup>&</sup>lt;sup>2</sup> Wagner, D.L., Bortugno, E.J., and McJurkin, R.D., 1991, Geologic Map of the San Francisco - San Jose Quadrangle, California Geological Survey, Regional Geologic Map No. 5A, 1:250,000 scale.

<sup>&</sup>lt;sup>3</sup> http://www.conservation.ca.gov/cgs/rghm/ap/Pages/Index.aspx

<sup>&</sup>lt;sup>4</sup> Federal Insurance Rate Map (FIRM) Panel 06099C0535E.

included in the EDR report. The most recent groundwater measurement was collected in 1977, prior to onset of recent severe drought conditions. We suspect that groundwater depths in the project site vicinity will be deeper than those presented below.

One facility was identified on the GeoTracker website<sup>6</sup> within a mile of the project intersection. Wells not installed at this site.

EDR Well ID	Well Use	Latitude (°N)	Longitude (°W)	Depth to Water (feet)	Date
A1	School	37.3544	121.0116		
A2	Unknown	37.5954869	121.0216003	23	1976
3	Unknown	37.6024312	121.0379897		
B4	Municipal	37.3600	121.0100		
B5	Municipal	37.3600	121.0100		
6	Unknown	37.6074311	121.0357675		
7	Unknown	37.6054867	121.0424343		
8	Unknown	37.5807	121.0293	15.4	2/3/1977

#### **Table 1: Groundwater Elevations**

Note: The location information for wells A1, B4 and B5 appears incorrect. Using the data presented in the EDR report these wells plot approximately 16.3 miles south of the project site. EDR plotted wells A1 and A2 approximately 2,400 east of the project intersection, and wells B4 and B5 approximately 4,000 feet to the east-northeast. Refer to map in EDR report.

-- = not available

#### 2.5 CURRENT LAND USE

In general, current land use in the immediate vicinity of the project intersection consists of rural local roads serving predominantly agricultural parcels with some rural residences. Whitmore traverses the site running east/west, Carpenter Road traverses the site from north/south. Lateral No. 2½ canal runs east/west immediately adjacent to the north side of Whitmore Avenue from Carpenter Road westward. The canal passes under Carpenter Road immediately north of the project intersection, then runs parallel to the east side of Carpenter Road for approximately 400 feet before turning eastward, away from the APE. The canal is lined within the limits of the APE. The Carpenter Road bridge is constructed with a single concrete span and low concrete guard rails.

Properties in the vicinity of the project intersection are used predominantly for orchards and other agrelated activities. Scattered residential structures are present in the immediate vicinity of the APE along both sides of Carpenter Road south of Whitmore Avenue, and along the south side of Whitmore Avenue east of Carpenter Road. There are no commercial, retail or industrial property uses in the vicinity.

#### 2.6 HISTORICAL LAND USE

#### 2.6.1 SUMMARY

There have been only minor changes in land uses within the project vicinity in the past 79 years. During this time period land in the vicinity of the project intersection has been used exclusively for agriculture,

<sup>&</sup>lt;sup>6</sup> http://geotracker.waterboards.ca.gov/



with the occasional rural residence. The most obvious change over the years in the increase in residential structures in the area.

#### 2.6.2 HISTORICAL AERIAL PHOTOGRAPHS

Aerial photographs were provided by EDR for the years shown in Table 2. The photographs were reviewed for information about historic conditions and land uses within the study area. The photos are described in chronological order below. Aerial photographs are included in Appendix C.

Year	Source	Scale
1937	USGS	1″=500′
1950	USGS	1″=500′
1957	Cartwright	1″=500′
1967	USGS	1″=500′
1974	USGS	1″=500′
1982	USGS	1″=500′
1987	USGS	1"=500'
1998	USGS/DOQQ	1″=500′
2005	USDA/NAIP	1″=500′
2006	USDA/NAIP	1"=500'
2009	USDA/NAIP	1″=500′
2010	USDA/NAIP	1″=500′
2012	USDA/NAIP	1″=500′

#### **Table 2: Historical Aerial Photographs**

**1937** Almost all land in project site vicinity utilized for agriculture. Whitmore Avenue and Carpenter Road visible, with Carpenter Road extending north only to Whitmore Avenue. Irrigation canal is visible, with branch that runs northwest through section 12. In the immediate vicinity of the intersection, residential structures are present approximately 1,000 feet east of the intersection on the south side of Whitmore, approximately 500 to 600 feet south of Whitmore on both sides of Carpenter.

**1950** No substantial changes noted from the 1937 photograph.

**1957** Irrigation canal no longer visible in section 12. No other substantial changes noted from the 1950 photograph.

**1967** No substantial changes are evident from the 1957 photograph.

**1974** This photograph is of poor quality. No substantial changes are evident from the 1967 photograph.

**1982** There appears to be more residential buildings on Carpenter south of the APE. No other substantial changes are evident from the 1974 photograph.

**1987** This photograph is of poor quality. No substantial changes are evident from the 1982 photograph.



**1998** No substantial changes are evident from the 1987 photograph.

**2005** More residential structures noted in the vicinity of the intersection, especially south of Whitmore Avenue on both sides of Carpenter Road, and east of Carpenter Road south of Whitmore Avenue. No other substantial changes are evident from the 1998 photograph.

**2006** No substantial changes are evident from the 2005 photograph.

**2009** No substantial changes are evident from the 2006 photograph.

**2010** No substantial changes are evident from the 2009 photograph.

**2012** No substantial changes are evident from the 2010 photograph.

#### 2.6.3 HISTORICAL TOPOGRAPHIC MAPS

Historical topographic maps were provided by EDR for the years shown in Table 3, and are discussed in chronological order below. Maps were reviewed for significant changes in topography or property improvements. Topographic maps are included in Appendix D.

Year	Quad	Series	Scale
1915	Westport	7.5	1:31,680
1941	Modesto West	15	1:62,500
1953	Brush Lake	7.5	1:24,000
1969	Brush Lake	7.5	1:24,000
1976	Brush Lake	7.5	1:24,000
2012	Brush Lake	7.5	1:24,000

#### **Table 3: Historical Topographic Maps**

**1915** Topography in the site vicinity is generally flat, with scattered small mounds and depressions depicted. To the west and north of the topography slopes toward the river. Whitmore Avenue runs eastwest through the project site. Carpenter Road runs south from Whitmore Avenue, but does not extend north of Whitmore Avenue. Lateral No. 1 canal runs west along the north side of Whitmore west of Carpenter Road. At the project intersection the canal crosses Carpenter Road and turns north for approximately 400 feet, before turning eastward away from the APE. A branch of canal runs northwest through section 12. Scattered structures depicted throughout the area.

**1941** Topography remains unchanged. Carpenter Road extends north from Whitmore Avenue to the Tuolumne River, but does not cross the river. Some land in the vicinity depicted as orchard. No other substantial changes noted from 1915 map noted.

**1953** Topography remains unchanged. No changes to streets are evident in the site vicinity. More structures now visible in the site vicinity. No other significant changes from 1941 map noted.

**1969 Photorevision** Topography now flatter than in previous maps, small mounds and depressions no longer depicted. Carpenter Road not depicted crossing Tuolumne River. Road configuration in the area remains unchanged. Canal through section 12 no longer depicted. Most of the land in the site vicinity depicted as orchard. No other significant changes from 1953 map noted.



1976 Photorevision No significant changes from 1969 map noted.

**2012** Topographic contours appear to have changes, apparently due to changes in contour interval. Structures no longer depicted on the map. This appears to reflect design changes with the mapping program, not a reflection of actual conditions. Canal adjacent to Whitmore Avenue now designated Lower Later Number Two and one Half. No other significant changes from 1976 map noted.

#### 2.6.4 SANBORN® FIRE INSURANCE MAPS

No Sanborn<sup>®</sup> Fire Insurance Maps were available for this location. Relevant documentation, provided by EDR, is included in Appendix E.

#### 2.6.5 CITY DIRECTORIES

CAInc reviewed the EDR-provided City Directory Image Report, which provides the name of the resident or business associated with each address in the project intersection vicinity approximately every five years for the target street Polk City Directory) from 1975 to 1985, and for both target street and cross street (Cole Information Services) from 1992 to 2013. Most listings on both W. Whitmore Avenue and S. Carpenter Road appear to be residential. Commercial operations identified in these directories had addresses that places them away from the APE. The City Directory Report by EDR is presented in Appendix F.

#### 3 DATABASE SEARCH AND RECORDS REVIEW

#### 3.1 DATABASE SEARCH

Databases and site lists maintained by environmental regulatory agencies were searched for properties within the study area to identify sites with known releases of hazardous materials or petroleum products, and sites with the potential for such releases. Each database and site list was searched for sites within the ASTM standard search radius relative to the project site. Database records are provided in Appendix G. The following databases and site lists were searched:

#### **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 (formerly CERCLIS)

#### Federal CERCLIS NFRAP site List

• SEMS-ARCHIVE – Superfund Enterprise Management System Archive; No Further Remedial Action Planned (formerly CERCLIS-NFRAP)



#### 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-LQG RCRA Large Quantity Generators
- 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 – equivalent CERCLIS

• ENVIROSTOR -- EnviroStor Database

#### State and tribal landfill and/or solid waste disposal site lists

• SWF/LF (SWIS) -- Solid Waste Information System

#### State and tribal leaking storage tank lists

- LUST -- Geotracker's Leaking Underground Fuel Tank Report
- INDIAN LUST -- Leaking Underground Storage Tanks on Indian Land
- SLIC -- Statewide SLIC (Spills, Leaks, Investigations and Cleanup) Cases

#### State and tribal registered storage tank lists

- UST -- Active UST (Underground Storage Tank) Facilities
- AST -- Aboveground Petroleum Storage Tank Facilities
- INDIAN UST -- Underground Storage Tanks on Indian Land
- FEMA UST -- Underground Storage Tank Listing

#### State and tribal voluntary cleanup sites

- VCP -- Voluntary Cleanup Program Properties
- INDIAN VCP -- Voluntary Cleanup Priority Listing on Indian Land

#### **State and Tribal Brownfields Sites**

BROWNFIELDS – Considered Brownfields 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
- ODI -- Open Dump Inventory
- INDIAN ODI -- Report on the Status of Open Dumps on Indian Lands
- DEBRIS REGION 9 -- Torres Martinez Reservation Illegal Dump Site Locations

#### Local Lists of Hazardous Waste / Contaminated Sites

- US HIST CDL -- National Clandestine Laboratory Register
- HIST Cal-Sites -- Historic Calsites Database
- SCH -- School Property Evaluation Program
- CDL -- Clandestine Drug Labs
- US CDL -- Clandestine Drug Labs
- Toxic Pits -- Toxic Pits Cleanup Act Sites

#### Local Lists of Registered Storage Tanks

- SWEEPS UST SWEEPS UST Listing
- UST MENDOCINO Mendocino County UST Database
- CA FID UST Facility Inventory Database
- HIST UST Hazardous Substance Storage Container Database

#### 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
- FEDLAND Federal and Indian Lands
- 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
- RODS -- Records of Decisions
- 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)
- FTTS INSP FIFRA / TSCA Tracking System inspections and enforcements
- 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
- HIST FTTS -- FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
- DOT OPS -- Incident and Accident Data
- CONSENT -- Superfund (CERCLA) Consent Decrees
- BRS Biennial Reporting System
- INDIAN RESERV -- Indian Reservations
- FUSRAP Formerly Utilized Sites Remedial Action Program
- UMTRA -- Uranium Mill Tailings Sites
- LEAD SMELTER Lead Smelter Sites
- US AIRS -- Aerometric Information Retrieval System Facility Subsystem
- US AIRS MINOR Air Facility System Data
- US MINES -- Mines Master Index File
- FINDS -- Facility Index System/Facility Registry System
- UXO Unexploded Ordnance Sites
- DOCKET HWC Hazardous Waste Compliance Docket Listing
- CA BOND EXP. PLAN -- Bond Expenditure Plan
- NPDES -- NPDES Permits Listing
- UIC -- UIC Listing
- CORTESE -- "Cortese" Hazardous Waste & Substances Sites List
- DRYCLEANERS -- Cleaner Facilities
- EMI -- Emissions Inventory Data
- ENF -- Enforcement Action Listing
- Financial Assurance -- Financial Assurance Information Listing
- HAZNET -- Facility and Manifest Data
- HIST CORTESE Hazardous Waste & Substance Sites 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
- UIC UIC Listing
- WASTEWATER PITS Oil Wastewater Pits Listing
- WDS Waste Discharge System
- WIP -- Well Investigation Program Case List
- ECHO Enforcement & Compliance History Information
- FUELS PROGRAM EPA Fuels Program Registered Listing

#### **EDR High Risk Historical Records**

- EDR MGP -- EDR Proprietary Manufactured Gas Plants
- EDR Hist Auto EDR Exclusive Historic Gas Stations
- EDR Hist Cleaner -- EDR Exclusive Historic Dry Cleaners

#### **EDR Recovered Government Archives**

- RGA LUST -- Recovered Government Archive Leaking Underground Storage Tank
- RGA LF -- Recovered Government Archive Solid Waste Facilities List

#### 3.2 SUMMARY OF RECORDS SEARCH

The project site was not identified in any of the databases searched by EDR. The following surrounding sites are listed on Federal, State, or Local ASTM Standard or supplemental environmental databases and located within the appropriate ASTM search distances of the subject property. Sites with adequate address information were plotted by EDR (Appendix E).

#### Edward M. Vargas, 2625 S. Carpenter Road (EDR Map ID A1)

Facility is approximately 729 feet south of the project intersection. This facility was identified on the SWEEPS UST, HIST UST, and CA FID UST databases. One 350-gallon underground storage tank (UST) for gasoline reported for this property. Property is situated on the west side of Carpenter Road adjacent to the APE. GeoTracker information for this site is included in Appendix H. Impact from this site appears unlikely.

#### Eugene D. Hoaglund, 2642 S. Carpenter Road (EDR Map ID A2)

Facility is approximately 450 feet south of the project intersection. This facility was also identified on the SWEEPS UST, HIST UST, and CA FID UST databases. Four 550-gallon USTs for diesel reported for this property. Property is situated on the east side of Carpenter Road approximately 200 feet east of the APE. Given this setback it appears unlikely that this facility has impacted the GeoTracker information for this site is included in Appendix H.

#### Bava Bro., 2043 W. Whitmore Avenue (EDR Map ID 3)

Facility is approximately 1,117 feet east of the project intersection. This facility was also identified on the SWEEPS UST, HIST UST, and CA FID UST databases. One 500-gallon UST for diesel reported for this property. Property is situated on the north side of Whitmore Avenue approximately 200 feet



east of the APE. No GeoTracker information for this site is available. It appears unlikely that this site has impacted the APE.

#### Rudy Bonzi's Sanitary Landfill, 2650 West Hatch Road (EDR Map ID 4)

Facility is approximately 4,281 feet north-northwest of the project intersection. This facility was identified on the ENVIROSTOR and WMUDS/SWAT databases. Groundwater is impacted with volatile organic compounds. Given the distance from this facility to the project intersection the likelihood of impact at the project intersection is low.

Sites with inadequate address information are listed as "orphan sites" and mapped locations were not provided. CAInc reviewed the list of twelve orphan sites identified by EDR for potential impacts to the project intersection. Six of these orphan sites (listed below) appear to be within 1 mile of the project intersection.

- **Clandestine drug lab**, Adjacent to canal 1/8 mile northeast of Whitmore and Carpenter Road (07/19/2002) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.
- **Clandestine drug lab**, Carpenter Rd and Whitmore (05/28/2001) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.
- **Clandestine drug lab**, on Whitmore Ave (12/06/2001) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.
- **Clandestine drug lab**, Whitmore Rd, ½ mi W of Carpenter Rd (11/16/1999) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.
- **Clandestine drug lab**, Whitmore Ave, near Carpenter Rd (07/03/2003) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned.
- **Clandestine drug lab**, Whitmore Ave, ½ mi S of Carpenter Rd (03/04/2005) location away from an actual illegal drug lab where drug lab waste and/or equipment were abandoned. It is interpreted as Carpenter Road, ½ mile south of Whitmore Avenue.

Given the age of these releases and the nature of the materials involved, it is unlikely any residual impact from these clandestine drug lab waste sites will be encountered in the APE. Copies of the EDR reports for these sites are included in Appendix H.

#### 3.3 GEOTRACKER DATABASE REVIEW

CAInc reviewed available records for the sites identified by EDR, and for additional sites within 1 mile of the project intersection. Figure 4 shows the locations of GeoTracker sites within 1 mile of the project intersection. One site was identified within the search area, and is discussed below:

#### Lopes Trucking Service, 2127 Carpenter

Facility Is approximately 3,200 feet north-northwest of the project intersection. A release of gasoline was reported September 21, 1987. Cleanup status listed as case closed, dated June 8, 1989. No documentation, reports, or data for this facility have been uploaded to GeoTracker. It appears unlikely that this facility has impacted the APE.

#### 4 **RECONNAISSANCE**

Mr. Steve Carter, PE, and Ms. Keiko Lewis, EIT, of CAInc visited the site on July 14, 2016 to observe current land use in the site vicinity, and to evaluate areas of concern regarding potential contamination



and hazardous materials and wastes. Photographs of the intersection and environs are included in Appendix B.

No adverse site conditions on either side of Carpenter Road or Whitmore Avenue were noted within the APE. No staining or discoloration of soil, abnormal topography, or abnormal plant growth was observed.

Within the APE, overhead electrical and telephone lines run along the south side of Whitmore Avenue to the east of the intersection. West of the intersection the overhead electrical lines are on the north side of Whitmore, and the overhead telephone lines are on the south side. Overhead electrical lines run along the east side of Carpenter Road on both sides of the intersection, and overhead telephone lines run along the west side. Overhead utilities are carried on treated wooden poles. Transformers observed during the side visit appeared in good repair; staining was not observed on the equipment, poles, or adjacent ground surface. Based on utility markings, underground natural gas lines run along the north side of Whitmore Avenue, along the west side of Carpenter Road south of the intersection, and along both sides of Carpenter Road north of the intersection. Markings for underground water lines were also observed.

Lower Lateral Number 2½ Canal runs adjacent to the north side of W. Whitmore Avenue west of the intersection. The canal crosses under Carpenter Road immediately north of the intersection, then runs along Carpenter Road for approximately 400 feet before turning eastward, out of the APE. The bridge over the canal consists of a single span structure with an asphalt-paved deck (Photo 3). Other details regarding the bridge structure could not be ascertained as the canal was full with water to the bottom of the bridge. Guard rails on the bridge consist of low concrete walls along both sides; these walls appear to be painted, but the paint was not observed to be peeling, flaking or powdery.

Fertilizer mixing equipment is installed in the orchard north of Whitmore Avenue and the canal, east of the intersection (Photo 8). Pumping equipment observed adjacent to the east side of Carpenter Road near the northern extent of the APE (Photo 7), and north of Whitmore Avenue, west of the intersection, on the north side of the canal (Photo 10). Land use in the immediate vicinity is predominantly orchards, with some rural residences. The number and location of these residences is consistent with the aerial photographs.

At the Vargas property (2625 S. Carpenter Road) we observed the residence, several outbuildings, and numerous vehicles and pieces of what appeared to be farm equipment. From the pubic street we observed a small steel aboveground storage tank on a stand, but could not visually verify the presence or absence of the underground storage tank. The house and outbuildings are far enough back from the street that if the UST is present it is unlikely to have impacted the APE.

At the Hoaglund property (2642 S. Carpenter Road) we were unable to see activities at the property. However, measurements from aerial photographs indicate that potential USTs that might remain at this site would be well out of the APE.

Other property uses observed in the vicinity of the project site appear consistent with the aerial photographs. No evidence of hazardous materials storage, petroleum product storage, or hazardous waste disposal was observed from the public right-of-way. Evidence of oil and gas operations, dumping or waste disposal, distressed vegetation, or hazardous or unidentified substance containers was not observed.



#### 5 FINDINGS

The purpose of this report is to identify recognized soil or groundwater contamination or hazardous material issues that could impact the project. The assessment identified the following potential hazardous materials issues that should be considered in the planning of project improvements.

#### 5.1 POTENTIAL RECS

No RECs or historical RECs were identified within the project APE boundary. Clandestine drug lab waste may have been dumped in the general vicinity of the APE and project intersection, but the last of these was reported in 2005; clandestine drug lag lab waste dumps are no longer likely to be an impact and are considered historical RECs. It appears as if residential properties in the vicinity that have or have had USTs for storage of gasoline or diesel are unlikely to have impacted the APE.

This project will involve replacement of the Carpenter Road bridge over the irrigation canal. It is possible that lead paint and or asbestos-containing materials are present on or within the bridge structure. Section 5.2 below describes measures that need to be taken to safely and properly handle these materials during demolition and construction.

#### 5.2 GENERAL HAZARDOUS MATERIALS ISSUES

#### 5.2.1 ASBESTOS CONTAINING MATERIAL (ACM)

Existing structures that will be impacted by project demolition may be constructed of materials having the potential to contain asbestos. Concrete structures (piers, footings, bridge abutments) and concrete pipes (storm drain) could potentially contain asbestos. Asbestos containing material (ACM), as defined in the California Code of Regulations, Title 8, Section 1529 of the Construction Safety Orders, can be present in construction materials such as drainage pipes or pipe conduits for utilities. Federal regulations require a Certified Asbestos Consultant make definitive conclusions regarding the presence of ACM. Under the federal asbestos National Emissions Standards for Hazardous Air Pollutants regulations (NESHAP, 40 CFR Part 61, Subpart M), a Certified Asbestos Consultant (CAC) must make definitive conclusions regarding the presence of asbestos survey must be completed to determine the appropriate method of handling and disposal. Written notification to the Air Quality Management District of demolition or renovation operations on structures is required at least 10 business days prior to conducting the work, regardless of the presence or absence of asbestos in building materials.

#### 5.2.2 LEAD-BASED PAINT

Some transportation structures may be painted, and lead is often found in these paint materials. Painted surfaces must be tested to ascertain if lead is present above threshold limits. Painted surfaces with lead concentrations above threshold limits must be disposed of in accordance with the Caltrans Standard Special Provisions for removal of lead paint Provision 14-11.13, Disturbance Of Existing Paint Systems On Bridges. Paint was observed

#### 5.2.3 CHEMICALLY TREATED WOOD

Chemically treated wood must be handled as treated wood waste (TWW) and disposed of as hazardous waste. If treated wood materials are encountered during the intersection reconstruction project (e.g., buried creosote timber piles), this timber would also be treated as TWW. Section 66261.9.5 of


Department of Toxic Substances Control (DTSC) regulations provide alternative management standards (AMS) for treated wood waste. Caltrans Special Standard Provision SSP 14-11.14 for TWW is based on AMS regulations. This special standard provision directs the contractor to follow the AMS, including providing training to all personnel that may come in contact with TWW. Training must include, at a minimum, safe handling; sorting and segregating; storage; labeling (including date); and proper disposal methods. Chemically treated wood removed from the project site must adhere to SPP 14-11.14. Chemically treated wood was not observed during the site reconnaissance (utility poles are the responsibility of the utility owner).

# 5.2.4 THERMOPLASTIC TRAFFIC STRIPING

Thermoplastic traffic striping typically contains heavy metals, including lead and chromium, at concentrations in excess of the hazardous waste thresholds established by the California Code of Regulations, and may produce toxic fumes when heated. Consequently, the yellow traffic striping within the project area may be tested to determine whether hazardous materials are present, or, if the volume of striping material is so low, it could be treated as hazardous waste and disposed of accordingly, at a Class 1 disposal facility.

# 5.2.5 NATURALLY OCCURRING ASBESTOS (NOA)

CAInc. reviewed the potential for Naturally Occurring Asbestos (NOA) in the study area by performing field reconnaissance and reviewing published geologic mapping (Department of Conservation Open-File Report 2000-019). The geologic mapping reviewed as part of this study<sup>7</sup> does not indicate ultramafic rocks or rocks suspected to contain NOA are present within the study area. CAInc. did not observe rock outcrops or rock fragments that are suspected to contain NOA in the study area during site reconnaissance. Although NOA can be associated with faults, no mapped faults are present in the general vicinity of project area (Figure 3). The potential for NOA in the study area is considered generally low and no further study is recommended.

# 5.2.6 TRANSFORMERS

Overhead utility lines (telephone and electricity) traverse the project site and will need to be relocated. The scope of this assessment did not include an inventory of past and present transformers. Historically, electrical transformers have contained polychlorinated biphenyls. Identification and remediation of old transformers and utility poles is the responsibility of the utility owner. Transformers were observed attached to utility poles within or adjacent to the APE. Evidence of leakage from these transformers was not observed during the reconnaissance.

# 5.2.7 AGRICULTURAL CHEMICALS

Much of the land adjacent to the APE is utilized for agricultural use. Fertilizer mixing equipment was observed in the orchard north of Whitmore Avenue and the canal, but this equipment is outside the APE. Because no evidence of agricultural chemical mixing or storage was observed within the APE, testing of the soil within the APE for agricultural chemicals is not warranted.

# 5.2.8 AERIALLY DEPOSITED LEAD (ADL)

Generally, ADL may be an issue on roads which have historically experienced significant traffic, particularly where vehicles would be stopping and idling, i.e., at a stop sign or a high congestion area. High concentrations of lead may be present in soil adjacent to structures with flaking, peeling, or

<sup>&</sup>lt;sup>7</sup> California Division of Mines and Geology, 2000, A General Location Guide for Ultramafic Rocks in California – Areas Likely to Contain Naturally Occurring Asbestos: Open-File Report 2000-19.



powdery lead-based paint. CAInc recommends collecting and analyzing soil samples at the intersection to evaluate if historical vehicle traffic has resulted in ADL.

## 5.2.9 PETROLEUM HYDROCARBONS

CAInc did not observe or find direct or indirect evidence of spills or releases of oil or motor vehicle fuel within the APE. Testing of soil within the APE for the presence of petroleum hydrocarbons is not warranted at this time.

# 6 **RECOMMENDATIONS**

Until the presence of asbestos and/or lead paint are definitively ruled out for the Carpenter Road bridge, this structure represents a potential REC. Historical RECs identified in the vicinity consist of clandestine drug lab waste sites, and are unlikely to represent an impact to the APE. CAInc is recommending that the bridge structure be inspected by an appropriately qualified professional to assess if ACMs and/or lead-based paint are present. CAInc also recommends that soil in the immediate vicinity of the bridge structure be evaluated for the presence of ADL above threshold limits.

# 7 LIMITATIONS

This report summarizes the findings and opinions of CAInc, with regard to the potential for the presence of contamination/hazardous materials within the project area at concentrations likely to warrant mitigation under current statutes and guidelines. Findings and opinions within this report are based on information obtained on given dates, or provided by specified individuals, through record reviews, site review, and related activities. CAInc's information is only as good as the information provided by these sources. Site conditions may change after documented observations have been made. A warrant or guarantee cannot be made that hazardous materials do not exist at the site. To further help reduce risk, an extensive invasive exploration could be completed prior to project implementation.

This report was prepared for the specific use of MTCo and their agents for this project, and applies only to the area identified as the project area. CAInc is not responsible for interpretations by others of data presented in this report. This report does not represent a legal opinion. No warranty is expressed or implied. Conclusions in this report are based on professional judgment and experience. Work for this assessment was performed in accordance with generally accepted standards of practice in northern California at the time of the assessment.

The scope of this investigation did not include determining the presence of radon. The EDR report notes that the federal EPA radon zone for Stanislaus County is 3 (indoor average level <2 picocurie/liter). Identifying endangered species, geologic hazards, archeological sites, or ecologically sensitive areas are also beyond the scope of this report.

The governmental records summary within this report is derived from public records, which are updated on a continual basis. For this reason, it is not advisable to use this information to base a decision after 180 days of the issue date of this report. Conditions at the site can and will change over time. Please contact CAInc to revise this report to reflect new information.



# APPENDIX A

Site Maps









- Quaternary Fault (Age)
- <150 years <15,000 years
- - <130,000 years

Quaternary Fault (Age) — <750,000 years

- <1.6 million years

Location

- Well Constrained
- Moderately Constrained Inferred

Project Mgr.	TEB	8/4/16	Γ
Project Geol.	SJC	8/4/16	
Designer			
Checked By			
Drawn By	KKL	8/4/16	
	By	Date	



**CARPENTER ROAD AND** WHITMORE AVENUE **INTERSECTION PROJECT STANISLAUS COUNTY** 

Figure 3 Fault Activity Map

Project No. 16-254.1 Scale 1":10miles Date 8/4/16



APPENDIX B

**Project Site Photographs** 





Photo 1 – View of project intersection. Looking west along Whitmore Avenue.



Photo 2 – Whitmore Avenue, looking east from intersection.





Photo 3 – Carpenter Road bridge over Lower Lateral No. 2½ canal.



**Photo** 4 – **Carpenter Road looking north from intersection.** 





**Photo** 5 – **Carpenter Road looking north toward intersection.** 



**Photo** 6 – Whitmore Avenue looking west from intersection.





Photo 7 – Pump adjacent to east side of Carpenter Road at north extent of APE.



Photo 8 – Aeration structure in canal, fertilizer mixing facility in fenced compound behind canal, north side of Whitmore Avenue.





Photo 9 – Aeration structure in canal, east side of Carpenter Road, looking south toward intersection.



**Photo** 10 – **Pumping equipment, north side of canal, north of Whitmore Avenue.** 



APPENDIX C

**Historical Aerial Photographs** 



Carpenter Road At Whitmore Ave 2498 S Carpenter Road Modesto, CA 95358

Inquiry Number: 4601166.9 April 28, 2016

# **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

## Site Name:

## **Client Name:**

04/28/16

Carpenter Road At Whitmore A 2498 S Carpenter Road Modesto, CA 95358 EDR Inquiry # 4601166.9

# Crawford & Associates Inc. 4030 South Land Park Drive Suite C Sacramento, CA 95822-0000 Contact: Ben Crawford



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:

<u>Year</u>	<u>Scale</u>	Details	<u>Source</u>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1998	1"=500'	Acquisition Date: August, 16 1998	USGS/DOQQ
1987	1"=500'	Flight Date: January, 01 1987	USGS
1982	1"=500'	Flight Date: June, 26 1982	USGS
1974	1"=500'	Flight Date: January, 01 1974	USGS
1967	1"=500'	Flight Date: January, 01 1967	USGS
1957	1"=500'	Flight Date: January, 01 1957	Cartwright
1950	1"=500'	Flight Date: March, 03 1950	USGS
1937	1"=500'	Flight Date: August, 06 1937	USGS

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APPENDIX D

Historical Topographic Maps



Carpenter Road At Whitmore Ave 2498 S Carpenter Road Modesto, CA 95358

Inquiry Number: 4601166.4 April 25, 2016

# EDR Historical Topo Map Report with QuadMatch™



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

## Site Name:

#### **Client Name:**

Carpenter Road At Whitmore A 2498 S Carpenter Road Modesto, CA 95358 EDR Inquiry # 4601166.4

# Crawford & Associates Inc. 4030 South Land Park Drive Suite C Sacramento, CA 95822-0000 Contact: Ben Crawford



04/25/16

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Crawford & Associates Inc. 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:		Coordinates:	
P.O.#	16-254.1	Latitude:	37.595039 37° 35' 42" North
Project:	Carpenter Road at Whitmore A	Longitude:	-121.030285 -121° 1' 49" West
-		UTM Zone:	Zone 10 North
		UTM X Meters:	673891.19
		UTM Y Meters:	4162709.24
		Elevation:	77.00' above sea level
Maps Provided	:		
2012			
1976			
1969			
1953			
1941			
1915			

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# **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## 2012 Source Sheets



Brush Lake

7.5-minute, 24000

### **1976 Source Sheets**



Brush Lake

7.5-minute, 24000 Photo Inspected 1976 Aerial Photo Revised 1968

#### **1969 Source Sheets**



Brush Lake

7.5-minute, 24000 Aerial Photo Revised 1968

## **1953 Source Sheets**



Brush Lake

7.5-minute, 24000 Aerial Photo Revised 1949

# **Topo Sheet Key**

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

## **1941 Source Sheets**



Modesto West

15-minute, 62500 Aerial Photo Revised 1939

#### **1915 Source Sheets**



Westport

7.5-minute, 31680

**Historical Topo Map** 



ADDRESS:

CLIENT:

2498 S Carpenter Road Modesto, CA 95358

Crawford & Associates Inc.



**Historical Topo Map** 



CLIENT:

SW

S

SE
# **Historical Topo Map**





SITE NAME:Carpenter Road At Whitmore AveADDRESS:2498 S Carpenter Road<br/>Modesto, CA 95358CLIENT:Crawford & Associates Inc.

1953

**Historical Topo Map** 



W

SW

S

SE

4601166 - 4 page 7

Crawford & Associates Inc.

CLIENT:

1969

**Historical Topo Map** 



SW

S

SE

**Historical Topo Map** 



SW

S

SE

APPENDIX E

Sanborn<sup>®</sup> Map Report



Carpenter Road At Whitmore Ave 2498 S Carpenter Road Modesto, CA 95358

Inquiry Number: 4601166.3 April 25, 2016

# **Certified Sanborn® Map Report**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

### 04/25/16 **Certified Sanborn® Map Report** Site Name: Client Name: Carpenter Road At Whitmore A Crawford & Associates Inc.

2498 S Carpenter Road Modesto, CA 95358 EDR Inquiry # 4601166.3

4030 South Land Park Drive Suite C Sacramento, CA 95822-0000 Contact: Ben Crawford



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Crawford & Associates Inc. were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

#### Certified Sanborn Results:

**Certification #** 262B-49D9-9759

**PO**# 16-254.1

Carpenter Road at Whitmore Ave Project

#### UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Certification #: 262B-49D9-9759

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

> Library of Congress University Publications of America EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX F

EDR City Directory Image Report



## **Carpenter Road At Whitmore Ave**

2498 S Carpenter Road Modesto, CA 95358

Inquiry Number: 4601166.5 April 26, 2016

# The EDR-City Directory Image Report



6 Armstrong Road Shelton, CT 06484 800.352.0050 www.edrnet.com

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**Executive Summary** 

Findings

**City Directory Images** 

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# **EXECUTIVE SUMMARY**

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### **RESEARCH SUMMARY**

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	$\checkmark$	$\checkmark$	Cole Information Services
2008	$\checkmark$	$\checkmark$	Cole Information Services
2003	$\checkmark$	$\checkmark$	Cole Information Services
1999	$\checkmark$	$\checkmark$	Cole Information Services
1995	$\checkmark$	$\checkmark$	Cole Information Services
1992	$\checkmark$	$\checkmark$	Cole Information Services
1985	$\checkmark$		Polk City Directory
1980	$\checkmark$		Polk City Directory
1975	$\checkmark$		Polk City Directory
1970			Polk City Directory
1965			Polk City Directory
1960			Polk City Directory

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# **FINDINGS**

### TARGET PROPERTY STREET

2498 S Carpenter Road Modesto, CA 95358

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
<u>S CARPEN</u>	NTER RD		
2013	pg A1	Cole Information Services	
2008	pg A3	Cole Information Services	
2003	pg A5	Cole Information Services	
1999	pg A7	Cole Information Services	
1995	pg A9	Cole Information Services	
1992	pg A11	Cole Information Services	
1985	pg A14	Polk City Directory	
1985	pg A15	Polk City Directory	
1980	pg A16	Polk City Directory	
1975	pg A17	Polk City Directory	
1970	-	Polk City Directory	Street not listed in Source
1965	-	Polk City Directory	Street not listed in Source
1960	-	Polk City Directory	Street not listed in Source

# FINDINGS

### **CROSS STREETS**

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<u></u>	<u>ee mage</u>	000100

### W WHITMORE AVE

2013	pg. A2	Cole Information Services
2008	pg. A4	Cole Information Services
2003	pg. A6	Cole Information Services
1999	pg. A8	Cole Information Services
1995	pg. A10	Cole Information Services
1992	pg. A12	Cole Information Services
1985	-	Polk City Directory
1980	-	Polk City Directory
1975	-	Polk City Directory
1970	-	Polk City Directory
1965	-	Polk City Directory
1960	-	Polk City Directory

Street not listed in Source **City Directory Images** 



Cross Street

-

Source Cole Information Services

# S CARPENTER RD 2013

1729	KHAMLA MINGSISOUPHANH
	OCCUPANT UNKNOWN
	YOUN KUDTHAVONG
1732	LY MAO
1733	PAUL BROWN
1737	CHARLES COLTER
1741	SANDY GUERRA
1745	GUADALUPE GUTIERREZ
1749	CATHERINE MELGOZA
1753	MATTHEW BANKS
1757	JOY BOUGHAN
1761	OCCUPANT UNKNOWN
1764	SUSAN POUV
2107	NAOMI CRISWELL
2115	OCCUPANT UNKNOWN
2127	LOPES TRUCKING SERVICE
2178	OCCUPANT UNKNOWN
2179	OCCUPANT UNKNOWN
2201	ESTEBAN CURIEL
2642	ARIEL GALLEGOS
2831	BARBARA VARGAS
2906	ROBERT CONWAY
2921	OCCUPANT UNKNOWN
2936	LUNA GRISELDA
3007	DONS WELDING
3018	THOMAS VILLANUEVA
3100	EVANGELINA DURAN
3112	DARLA BRUHNS
3200	JOSEPH RUNNELS
3242	BOBBY CONWAY
	VALLEY HARVEST NUT CO INC
3312	OCCUPANT UNKNOWN
3324	ROBERT FERNANDES
	SKITTONE ALMOND SHELLER
3401	NORVAL PIMENTAL
3601	OCCUPANT UNKNOWN
3636	GARY RAMSDELL

Target Street

# W WHITMORE AVE 2013

- 1637 BULMARO DOMINGUEZ 1641 MARTIN ANDREWS
  - 1900 FATIMA VILLA
  - 1902OCCUPANT UNKNOWN1904EFREN GONZALEZ

\_

- 1937 FAIRVIEW ELEMENTARY SCHOOL
- 1942 MAGGIE BADILLO
  - RODRIGO RODRIGUES
- 2042 RALPH BAVA
- 2043 JACKIE SCHEI
- 2136 RALPH BAVA
- 2142 FRANK VARNI
- 2218 AJIT JHATU
- 2406 JEFFREY JENSEN
- 2478 ANDY CABRAL
- 2601 RAUL MARTINEZ
- 2706 GILBERT MENDES
- 2790 STEVE WILLMIRTH
- 2900 MIGUEL MAGANA
- 3037 SHERRA CAMPBELL
- 3049 EDDIE NEW
- 3115 VICTOR HORTA
- 3131 OCCUPANT UNKNOWN
- 3135 EVERETT FOX
- 3139 OCCUPANT UNKNOWN



Cross Street

-

Source Cole Information Services

# S CARPENTER RD 2008

1729	YOUN KUDTHAVONG
1732	CHAN MAO
TIOL	MAO PILLOWS & CLOTHES
1733	BOY HIGHTCHEW
1736	SALVADOB GOMEZ
1737	CHABLES COLTER
1741	BRIDGET CALDERON
1745	GUADALUPE GUTIERREZ
1749	GENE ADAMS
1753	OCCUPANT UNKNOWN
1757	WAYLAND RUSSELL
1761	RON HASLAM
1764	SUSAN POUV
2107	OCCUPANT UNKNOWN
2115	JOSE GOMEZ
2127	LOPES TRUCKING SERVICE INC
2178	MARIA NUNEZ
2179	GUADALUPE CASTRO
2201	ESTEBAN CURIEL
2625	GARY SPEARS
2642	ARIEL GALLEGOS
2831	HOME INTERIORS & GIFTS BY BARBARA VA
	LLOYD VARGAS
2906	ORCHARD AG FARMS
	ROBERT CONWAY
2921	
2936	
3007	DON OLIVER
0010	DONS WELDING
3018	
3100	
3112	
3200	
3201	
3242	
3304	
5524	
3401	CHARLES BUTLER
0-101	
3601	PATRICIA GRAHAM
3636	GABY BAMSDELL
0000	

-

# W WHITMORE AVE 2008

1637	RICHARD PEREZ
1641	MARTIN ANDREWS-JR
1900	EDELWEISS DAIRY
	RYAN TRINKLER
1904	TOBIAS SOTO
1937	FAIR VIEW ELEMENTARY SCHOOL
	MODESTO CITY SCHOOL DISTRICT
1942	BABY WIPES SEPTIC SERVICE
	MAGGIE BADILLO
	RODRIGO RODRIGUES
2042	STANLEY BELL
	STANLEY BELL
2043	DDR BAVA ENTERPRISES L P
	MARY BAVA
2136	RALPH BAVA
2142	FRANK VARNI PROPERTY MANAGMEN
	LVF ENTERPRISES
2218	BALJIT JHATU
	WHITMORE MARKET
2406	JEFFREY JENSEN
2478	BEVERLY CABRAL
	OSCAR RUDEL
2601	OCCUPANT UNKNOWN
2706	GILBERT MENDES
2900	MIGUEL MAGANA
3037	BETTY STROUD
3049	EDDIE NEW
3131	DAVID LUND
	OCCUPANT UNKNOWN
3135	HANNAH FOX
3139	DAVID JOHNSON



Cross Street

-

Source Cole Information Services

# S CARPENTER RD 2003

1729	
1700	
1732	
1733	
1/36	
1/3/	
1/41	
1745	
1749	
1753	
1/5/	
	LORI RICHIE-LONG
1/61	
1/64	
2107	
2115	
2127	LOPES TRUCKING SERVICE INC
21/8	
2179	MARIA CURIELIOPETE
2201	ESTEBAN CUREL
2381	PAUL GUTIERREZ
2625	GARY SPEARS
2642	JASWINDER JHATU
2831	LLOYD J VARGAS
	LLOYD VARGAS
2906	G GOESCH
2936	ROLAND EDWARDS
3007	DON OLIVER
3018	JAMES SMITH
	SMITH MAINTENANCE & RSTRTN
3100	EVANGELINA DURAN
3112	DAVID COELHO
3200	ORCHARD AG FARMS
	ROBERT CONWAY
3201	JOSEPH DEGRADO
3242	BOBBY CANWAY
	BOBBY E CONWAY
	VALLEY HARVEST NUT CO
3324	ALS FARM SERVICE
	SKITTONE ALMOND SHELLER INC
3401	NORVAL PIMENTEL
	P&E IHERMAL BATTERIES
	PIMENTEL NORVAL
3601	JASON BROWN
3636	GARY RAMSDELL

# W WHITMORE AVE 2003

1637	ANGEL SAAVEDRA

- 1900 EDELWEISS DAIRY
- JOSE MARTINEZ
- 1904 PATRICIA HINOJOSA

\_

- 1937 FAIRVIEW ELEMENTARY SCHOOL ROB WILLIAMS
- 1942 RODRIGO RODRIGUES
- 2042 STANLEY BELL
- STANLEY BELL
- 2043 RALPH BAVA
- 2136 RALPH BAVA
- 2142 LVF ENTERPRISES
- 2478 OSCAR RUDEL
- 2600 AAA CALIFORNIA BNKRPTCY ASTNC
- 2601 ERIKA MARTINEZ
- 2706 GILBERT MENDES
- 2790 JODI WILLMIRTH
- 2900 LORENA HERRERA
- 2920 RITE AID PHARMACIES
- 3049 EDDIE NEW
- 3100 REZABETH AZIZPOR
- 3109 ENGLISH JOHN MD FAMILY PLAN SERVICES GLEN VILLANUEVA
- 3115 PRESTON BOWMAN
- 3131 ALMA LYLES
- 3135 EVERETT FOX
- 3139 DAVID JOHNSON



-

# S CARPENTER RD 1999

1729	HANS STEPHENSON
	OCCUPANT UNKNOWN
	YOUN KUDTHAVONG
1741	KENNETH DEMELLO
	ROBERT MARTIN
1745	GUADALUPE GUTIERREZ
1753	OCCUPANT UNKNOWN
2127	LOPES TRUCKING SERVICE
2178	JESUS MAGANA
	MARIA NUNEZ
2201	ESTEBAN CURIEL
2625	GARY SPEARS
2831	LLOYD VARGAS
2936	JULIO LUNA
3007	DON OLIVER
	DONS WELDING
3018	THOMAS VILLANUEVA
3100	EVANGELINA DURAN
	OCCUPANT UNKNOWN
3200	JOSEPH RUNNELS
3201	CAROLYN RUNNELS
3324	ROBERT FERNANDES
	SKITTONE ALMOND SHELLER
3401	NORVAL PIMENTAL
3601	OCCUPANT UNKNOWN
3636	GARY RAMSDELL
	OCCUPANT UNKNOWN

Target Street

-

# W WHITMORE AVE 1999

1637	ANDRES PEREZ
1641	MARTIN ANDREWS-JR
	OCCUPANT UNKNOWN
1651	CASH & CARRY
1900	EDELWEISS DAIRY
1904	FATIMA VARGAS
	JOSE MARTINEZ
1937	FAIRVIEW ELEMENTARY SCHOOL
2043	OCCUPANT UNKNOWN
2061	OCCUPANT UNKNOWN
2406	JEFFREY JENSEN
2478	OSCAR RUDEL
2706	GILBERT MENDES
2769	OCCUPANT UNKNOWN
2790	OCCUPANT UNKNOWN
2900	OCCUPANT UNKNOWN
2908	OCCUPANT UNKNOWN
2916	SAVE MART SUPERMARKETS
2920	RITE AID PHARMACIES CERES
3037	OCCUPANT UNKNOWN
3049	EDDIE NEW
3115	OCCUPANT UNKNOWN
3131	DAVID LUND
3135	HANNAH FOX
3139	DAVE JOHNSON



-

Source Cole Information Services

# S CARPENTER RD 1995

2107	CRISWELL, DALE SR
	HODGE, ARCHIE
	JOHNSON, RICHARD
	ROBERTS, KIM
2127	BREY, ELMER
	LOPES TRUCKING SVC
2179	SMITH, HARLON T
2201	CUREL, ESTEBAN
	CURIEL, ESTEBAN
2625	OCCUPANT UNKNOWNN
2642	HOAGLUND, EUGENE D
2831	VARGAS, LLOYD J
2906	OCCUPANT UNKNOWNN
2936	SKITTONE, PAUL
3007	DONS WELDING
	OLIVER, DON L
3112	MATTERI, SHARON
3201	DEGRADO, JOSEPH J
3242	CONWAY, BOBBY E
3324	FERNANDES, CESAR A
	SKITTONE ALMOND HULLER
3401	P & E THERMO BATTERY
	PIMENTEL, NORVAL

Target Street

-

# W WHITMORE AVE 1995

1637	BURKETT, M
1641	OCCUPANT UNKNOWNN
1651	JEFFERS VACUUM
	JEFFERS, MARY
1812	ELEGANT OAK
1937	FAIRVIEW ELEMENTARY SCHOOL
1942	RODRIGUES, ROD
2042	BELL, STANLEY
2043	BAVA, RALPH
2136	BAVA, RALPH J JR
2142	VARNI, FRANK J
2478	RUDEL, MARTHA H
2601	OCCUPANT UNKNOWNN
2706	MENDES, GILBERT
2769	OCCUPANT UNKNOWNN
2790	TAYLOR, LEROY
2900	OCCUPANT UNKNOWNN
3037	STROUD, VERNA
3049	NEW, EDDIE A
3100	ABRAHAM, JOSEPH G
	ARANA, JESUS
	AZIZPOR, R
	BERBER, FRANK
	CEJA, JAVIER
	CHAVEZ, ESTHELA
	DAVID, M K
	DAWOOD, KHATOON
	DIRYAWISH, ESAM
	HAMPTON, DIANA
	JIMENEZ, ANA M
	KOSHABA, TOUROZ
	LACHIN, Z
	MIKHAIL, ZAWART
	OCHOA, ELVIRA
	RIVIERA, T
	SIDDIQI, AIDA
	TAYLOR, NELLIE F
	TELLES, ANITA
	TOUR, DALWANT S
3115	ROWMAN DIANA
3121	
3135	FOX EVERETT D
3139	IOHNSON DAVID
0103	



Cross Street

-

Source Cole Information Services

# S CARPENTER RD 1992

1729	MORM, SARORM
	PHAENGDY, KHEAN
1736	WISELEY, HARRY
1745	CALVO, JUAN
1764	TANNER, ROSS O
2107	CRISWELL, ALVIN D
2127	BREY, ELMER
	LOPES TRUCKING SERV
2178	MAGANA, JOHNNY
2179	SMITH, HARLON T
2906	LOVEJOY, WARREN E
2936	SKITTONE, PAUL
3007	DONS WELDING
3112	COELHO, DAVID M
3201	DEGRADO, JOSEPH J
3242	CONWAY, BOBBY E
3324	FERNANDES, CESAR A
	SKITTONE ALMND HLLR
3401	PIMENTEL, NORVAL

-

# W WHITMORE AVE 1992

1651	NAZAR FURNITURE
1812	CAMPBELL CABINETS
1000	ELEGANT OAK THE
1000	BODRIGUES BOD
1937	FAIRVIEW ELEM SC
1941	SHELTON, T G
1942	KLINE, D
	RODRIGUES, ROD
2042	BELL, STANLEY
2043	BAVA, RALPH
2136	BAVA, RALPH J JR
2142	
2601	GUTIEBBEZ, D
2706	LEE, JEFF
2790	COX, STEVE
	WILLMIRTH BAIL BOND
	WILLMIRTH, RAY
3037	CLINKENBEARD, VELMA
3049	NEW, EDDIE A
3100	ABRAHAM, JOSEPH G
	RAINNIS PRADIPK
	BEBBER FRANK
	CALDERON, SERGIO
	CEJA, JAVIER
	CHAVEZ, ESTHELA
	DAVID, M K
	DIRYAWISH, ESAM
	HAMPTON, DIANA
	KAMBER GILBERT P
	KOSHABA, DAVID
	LACHIM, Z
	LUNA, M
	MENDOZA, CARLOS
	OCHOA, ELVIRA
	RAMOS, ANTONIO C
	TELLES, ANITA
	TILBA, MARYAM
	TOMA, NAHREEN
	TOOR, BALWANT S
	TOOR, I S
	VALLADOLID, RAMIRO
	VEGA, JUAN C

Target Street

-

Cross Street ✓ Source Cole Information Services

# W WHITMORE AVE 1992 (Cont'd)

3100 VILLAGRANA, G YOUSIF, ARABOO Target Street

Cross Street

Source Polk City Directory

# S CARPENTER RD 1985

1328 Vacant 1525\*Carson Fallis 522-7498 1637 No Return 1701 Harter Richd S 577-0779 1708 Vacant 1709 Scarbourgh Demisea Mrs © 529-8558 1712 Olsen Sverra @ 522-8677 1713 Railsback Jack S @ 522-0819 1720 Craig Douglas © 526-0979 1721 Cilenti Mike 527-5792 1725 Dutra Fred A @ 522-6003 1729 No Return 1729<sup>1</sup>/<sub>2</sub> \*Kai D 527-2390 1733 Tumilty Frank @ 521-6999 1736 Wiseley Harry © 578-2847 1737 Zimmerman Geo 1741 Martin Robt A @ 521-6624 1745\*Calvo Juan 526-8371 1749 Vacant 1753★Barton Jerry <sup>©</sup> 529-8087 1757 Russell Wayland T O

Target Street ✓

Cross Street

-

Source Polk City Directory

S CARPENTER RD 1985

1761 Haslam Wm R <sup>©</sup> 521-2413
1764 Tanner Ross O <sup>©</sup> 522-6638
ROBERTSON RD INTERSECTS





## APPENDIX G

EDR Radius Map™ Report with GeoCheck<sup>®</sup> Inquiry Number: 4601184.2s

Crawford & Associates, Inc. Geotechnical Engineering, Design and construction Services 0 Since 1954

## **Carpenter Road At Whitmore Ave**

2498 S Carpenter Road Modesto, CA 95358

Inquiry Number: 4601166.2s April 25, 2016

# The EDR Radius Map<sup>™</sup> Report with GeoCheck<sup>®</sup>



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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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) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### ADDRESS

2498 S CARPENTER ROAD MODESTO, CA 95358

#### COORDINATES

Latitude (North):	37.5950390 - 37° 35' 42.14"
Longitude (West):	121.0302850 - 121° 1' 49.02"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	673895.5
UTM Y (Meters):	4162504.5
Elevation:	77 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640378 BRUSH LAKE, CA
Version Date:	2012

#### **AERIAL PHOTOGRAPHY IN THIS REPORT**

Portions of Photo from: Source: 20120628 USDA

### Target Property Address: 2498 S CARPENTER ROAD MODESTO, CA 95358

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
A1	EDWARD M. VARGAS	2625 S CARPENTER RD	SWEEPS UST, HIST UST, CA FID UST	Lower	729, 0.138, South
A2	EUGENE D. HOAGLUND	2642 S CARPENTER RD	SWEEPS UST, HIST UST, CA FID UST	Lower	803, 0.152, South
3	BAVA BRO.	2043 W WHITMORE RD	SWEEPS UST, CA FID UST	Higher	1117, 0.212, East
4	RUDY BONZI'S SANITAR	2650 WEST HATCH ROAD	ENVIROSTOR, WMUDS/SWAT	Lower	4281, 0.811, NNW
#### 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-LQG
 RCRA - Large Quantity Generators

 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 landfill and/or solid waste disposal site lists

SWF/LF..... Solid Waste Information System

#### State and tribal leaking storage tank lists

LUST	Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
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

VCP\_\_\_\_\_ Voluntary Cleanup Program Properties INDIAN VCP\_\_\_\_\_ Voluntary Cleanup Priority Listing

## 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
ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations

#### Local Lists of Hazardous waste / Contaminated Sites

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
US CDL	National Clandestine Laboratory Register

#### 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
FINDS	. Facility Index System/Facility Registry System

CA BOND EXP. PLAN Cortese CUPA Listings DRYCLEANERS EML ENF Financial Assurance	Bond Expenditure Plan "Cortese" Hazardous Waste & Substances Sites List CUPA Resources List Cleaner Facilities Emissions Inventory Data Enforcement Action Listing Financial Assurance Information Listing
HAZNET	Facility and Manifest Data
HIST CORTESE	Hazardous Waste & Substance Site 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
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List
FUELS PROGRAM	EPA Fuels Program Registered Listing
ECHO	Enforcement & Compliance History Information

## EDR HIGH RISK HISTORICAL RECORDS

#### EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner	EDR Exclusive Historic Drv Cleaners

#### EDR RECOVERED GOVERNMENT ARCHIVES

#### **Exclusive Recovered Govt. Archives**

#### 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

#### 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 02/01/2016 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
RUDY BONZI'S SANITAR Facility Id: 50490008	2650 WEST HATCH ROAD	NNW 1/2 - 1 (0.811 mi.)	4	12
Status: Refer: RWQCB				

#### 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 are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
<b>BAVA BRO.</b> Status: A Tank Status: A Comp Number: 31836	2043 W WHITMORE RD	E 1/8 - 1/4 (0.212 mi.)	3	11
Lower Elevation	Address	Direction / Distance	Map ID	Page
<i>EDWARD M. VARGAS</i> Status: A Tank Status: A Comp Number: 44923	2625 S CARPENTER RD	S 1/8 - 1/4 (0.138 mi.)	A1	8
EUGENE D. HOAGLUND Status: A	2642 S CARPENTER RD	S 1/8 - 1/4 (0.152 mi.)	A2	9

Tank Status: A Comp Number: 43555

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 are 2 HIST UST sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
EDWARD M. VARGAS	2625 S CARPENTER RD	S 1/8 - 1/4 (0.138 mi.)	A1	8
EUGENE D. HOAGLUND	2642 S CARPENTER RD	S 1/8 - 1/4 (0.152 mi.)	A2	9

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
<i>BAVA BRO.</i> Facility Id: 50003408 Status: A	2043 W WHITMORE RD	E 1/8 - 1/4 (0.212 mi.)	3	11	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
<i>EDWARD M. VARGAS</i> Facility Id: 50003802 Status: A	2625 S CARPENTER RD	S 1/8 - 1/4 (0.138 mi.)	A1	8	
<b>EUGENE D. HOAGLUND</b> Facility Id: 50003779 Status: A	2642 S CARPENTER RD	S 1/8 - 1/4 (0.152 mi.)	A2	9	

Due to poor or inadequate address information, the following sites were not mapped. Count: 12 records.

Site Name	Database(s)
CARPENTER RD & TORRID AVE RETAIL C	NPDES
	CDL
GILROY FOODS CASE # 2	LUST
MODESTO CITY DS, E/W CARPENTER ROA	RGA LF

## **OVERVIEW MAP - 4601166.2S**



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:	Carpenter Road At Whitmore Ave
ADDITE 33.	Modesto CA 95358
LAT/LONG:	37.595039 / 121.030285

CLIENT: Crawford & Associates Inc. CONTACT: Ben Crawford INQUIRY #: 4601166.2s DATE: April 25, 2016 1:59 pm Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

## **DETAIL MAP - 4601166.2S**



SITE NAME:	Carpenter Road At Whitmore Ave
ADDRESS:	2498 S Carpenter Road
	Modesto CA 95358
LAT/LONG:	37.595039 / 121.030285

CLIENT: CONTACT: Crawford & Associates Inc. Ben Crawford INQUIRY #: 4601166.2s April 25, 2016 2:01 pm DATE:

Copyright © 2016 EDR, Inc. © 2015 TomTom Rel. 2015.

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMEN	ITAL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 TP		0 0 NR	0 0 NR	0 0 NR	0 0 NR	NR NR NR	0 0 0
Federal Delisted NPL si	ite list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRA	AP site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	CTS facilities l	ist						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-COF	RRACTS TSD I	facilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generato	ors list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls re	ntrols / gistries							
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equiv	alent NPL							
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equiv	alent CERCLI	S						
ENVIROSTOR	1.000		0	0	0	1	NR	1
State and tribal landfill solid waste disposal sit	and/or te lists							
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking	storage tank	lists						
LUST	0.500		0	0	0	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST SLIC	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal registe	ered storage tar	nk lists						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 0 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 0 0 0
State and tribal volunta	ary cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brown	fields sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONME	ENTAL RECORD	8						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Waste Disposal Sites	/ Solid							
WMUDS/SWAT SWRCY HAULERS INDIAN ODI ODI DEBRIS REGION 9	0.500 0.500 TP 0.500 0.500 0.500		0 0 NR 0 0 0	0 0 NR 0 0 0	0 0 NR 0 0 0	NR NR NR NR NR	NR NR NR NR NR NR	0 0 0 0 0
Local Lists of Hazardo Contaminated Sites	us waste /							
US HIST CDL HIST Cal-Sites SCH CDL Toxic Pits US CDL	TP 1.000 0.250 TP 1.000 TP		NR 0 0 NR 0 NR	NR 0 NR 0 NR	NR 0 NR 0 NR	NR 0 NR NR 0 NR	NR NR NR NR NR NR	0 0 0 0 0
Local Lists of Register	ed Storage Tar	nks						
SWEEPS UST HIST UST CA FID UST	0.250 0.250 0.250		0 0 0	3 2 3	NR NR NR	NR NR NR	NR NR NR	3 2 3
Local Land Records								
LIENS LIENS 2 DEED	TP TP 0.500		NR NR 0	NR NR 0	NR NR 0	NR NR NR	NR NR NR	0 0 0
Records of Emergency	/ Release Repo	rts						
HMIRS	TP		NR	NR	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CHMIRS	TP		NB	NB	NB	NB	NB	0
IDS	TP		NR	NR	NR	NR	NR	õ
MCS	TP		NR	NR	NR	NR	NR	Õ
SPILLS 90	TP		NR	NR	NR	NR	NR	õ
Other Ascertainable Rec	ords							·
BCBA NonGen / NI B	0.250		0	0	NR	NR	NR	0
FUDS	1.000		Õ	õ	0	0	NR	Õ
DOD	1.000		Ō	0	Ō	Ō	NR	0
SCRD DRYCLEANERS	0.500		Ő	õ	Ő	NR	NR	õ
US FIN ASSUB	TP		NB	NR	NB	NB	NR	Ő
				ND				0
	0.050			0				0
	0.250							0
TSCA								0
IRIS			NR	NR	NR	NR	NR	0
SSIS	IP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOF	TP		NB	NR	NB	NB	NB	Õ
COAL ASH EPA	0.500		0	0	0	NB	NR	õ
PCB TRANSFORMER	TP		NB	NR	NB	NB	NB	Õ
	TP			NR	NR		NR	0
	TP			NR				Ő
								0
	1 000							0
	1.000		0	0	0	0		0
	1.000		0	0	0	0		0
FUSRAP	1.000		0	0	0	0	NR	0
	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	IP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	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
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Einancial Assurance	TP		NR	NR	NR	NR	NB	0
HAZNET	TP		NB	NB	NB	NB	NB	õ
HIST COBTESE	0.500		0	0	0	NR	NR	ñ
HW/P	1 000		0	0	0			ň
	0.050		0	0				0
	U.20U							0
								0
	0.250		U	U	NК	NK	NK	U

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	IP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	IP		NR	NR	NR	NR	NR	0
	0.250		0	0		NR		0
FUELS PROGRAM	0.250							0
EDR HIGH RISK HISTORIC	AL 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		0	NR	NR	NR	NR	0
EDR RECOVERED GOVER	NMENT ARCHI	VES						
Exclusive Recovered G	ovt. Archives							
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals		0	0	8	0	1	0	9

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Database(s)

EDR ID Number EPA ID Number

A1 South 1/8-1/4 0.138 mi. 729 ft.	EDWARD M. VARGAS 2625 S CARPENTER RD MODESTO, CA 95351 Site 1 of 2 in cluster A			SWEEPS UST HIST UST CA FID UST	S101626224 N/A
Relative: Lower	SWEEPS UST: Status:	Active			
Ashual	Comp Number:	44923			
76 ft.	Number: Board Of Equalization:	9 Not reported	4		
	Beferral Date:	07-01-85	1		
	Action Date:	Not reported	t		
	Created Date:	02-29-88			
	Owner Tank Id:	1			
	SWRCB Tank Id:	50-000-0449	923-000001		
	Tank Status:	А			
	Capacity:	350			
	Active Date:	07-01-85			
	STC:	M.V. FUEL			
	Content:				
	Number Of Tanks	1			
	HIST LIST.				
	File Number		00021ED0		
	URL:		http://geotracker.waterboards.ca.gov/ustpdfs/pdf/	00021ED0.pdf	
	Region:		Not reported		
	Facility ID:		Not reported		
	Facility Type:		Not reported		
	Other Type:		Not reported		
	Contact Name:		Not reported		
	l elephone:		Not reported		
	Owner Address:		Not reported		
	Owner City St Zin:		Not reported		
	Total Tanks:		Not reported		
	Tank Num:		Not reported		
	Container Num:		Not reported		
	Tank Capacity:		Not reported		
	Tank Used for		Not reported		
	Type of Fuel:		Not reported		
	Container Construction	Thickness:	Not reported		
	Leak Detection:		Not reported		
	Click here for Geo Trac	ker PDF:			
	CA FID LIST				
	Facility ID: 50	0003802			
	Regulated By: U	TNKA			
	Regulated ID: 0	0044923			
	Cortese Code: N	ot reported			
	SIC Code: N	ot reported			
	Facility Phone: 20	095373869			
	Mail To: N	ot reported			
	ivialling Address: 20	22 2 CARPE			

Database(s)

EDR ID Number EPA ID Number

	EDWARD M. VARGAS (C	ontinued)		S101626224
	Mailing Address 2: I Mailing City,St,Zip: I Contact: I Contact Phone: I DUNs Number: I NPDES Number: I EPA ID: I Comments: I Status: /	Not reported MODESTO 95351 Not reported Not reported Not reported Not reported Not reported Not reported Active		
A2 South 1/8-1/4 0.152 mi. 803 ft	EUGENE D. HOAGLUND 2642 S CARPENTER RD MODESTO, CA 95351 Site 2 of 2 in cluster A		SWEEPS UST HIST UST CA FID UST	S101626236 N/A
505 n.				
Relative:	Status:	Active		
Actual	Comp Number:	43555		
Actual: 76 ft.	Number: Board Of Equalization	9 · Not reported		
	Referral Date:	07-01-85		
	Action Date:	Not reported		
	Created Date:	02-29-88		
	Owner Lank Id:	#1 50 000 043555 000001		
	Tank Status	A		
	Capacity:	500		
	Active Date:	07-01-85		
	Tank Use:	M.V. FUEL		
	STG:	P		
	Content:	DIESEL		
	Number OF Tanks.	4		
	Status:	Active		
	Comp Number:	43555		
	Number:	9		
	Board Of Equalization	1 NOT REPORTED		
	Action Date:	Not reported		
	Created Date:	02-29-88		
	Owner Tank Id:	#2		
	SWRCB Tank Id:	50-000-043555-000002		
	Tank Status:	A		
	Capacity: Active Date	500 07-01-85		
	Tank Use:	M.V. FUEL		
	STG:	Р		
	Content:	DIESEL		
	Number Of Tanks:	Not reported		
	Status:	Active		
	Comp Number:	43555		
	Number:	9		
	Board Of Equalization	: Not reported		
	Referral Date:	07-01-85		

Not reported 02-29-88

Action Date: Created Date:

Database(s)

EDR ID Number EPA ID Number

EUGENE D. HOAGLUND (C	ntinued)	S10162	26236
Owner Tank Id: SWRCB Tank Id: Tank Status: Capacity: Active Date:	3 0-000-043555-000003 \ 50 17-01-85		
Tank Use: STG:	1.V. FUEL		
Content:	DIESEI		
Number Of Tanks:	lot reported		
Status:	Active		
Comp Number:	3555		
Number.	lat reported		
Board Of Equalization.			
Action Date:	lot reported		
Created Date:			
Greated Date.	2-29-00		
SWRCR Tank Id:	4		
SWROD Talik iu.	0-000-043555-000004		
	N 160		
Active Date:	17-01-85		
Tank Use:	N.V. FUEL		
SIG:			
Content:			
Number Of Tanks.	ior reported		
HIST UST:			
File Number:	00021F55		
URL:	http://geotracker.water	poards.ca.gov/ustpdfs/pdf/00021F55.pdf	
Region:	Not reported		
Facility ID:	Not reported		
Facility Type:	Not reported		
Other Type:	Not reported		
Contact Name:	Not reported		
Telephone:	Not reported		
Owner Name:	Not reported		
Owner Address:	Not reported		
Owner City,St,Zip:	Not reported		
Total Tanks:	Not reported		
Tank Num:	Not reported		
Container Num:	Not reported		
Year Installed:	Not reported		
Tank Capacity:	Not reported		
Tank Used for:	Not reported		
Type of Fuel:	Not reported		
Container Construction	nickness: Not reported		
Leak Detection:	Not reported		
Click here for Geo Trac	r PDF:		
	09770		
Facility ID: 50	J3779		
Regulated By: U			
Regulated ID: 00	43555		

Database(s)

EDR ID Number EPA ID Number

Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7079388312
Mail To:	Not reported
Mailing Address:	2642 S CARPENTER RD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	MODESTO 95351
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

#### 3 BAVA BRO.

East 1/8-1/4 0.212 mi. 1117 ft.	2043 W WHITMORE RD MODESTO, CA 95351	
Relative:	SWEEPS UST:	
Higher	Status:	Active
	Comp Number:	31836
Actual:	Number:	9
// IL.	Board Of Equalization	n: Not reported
	Referral Date:	07-01-85
	Action Date:	
	Created Date:	02-29-88
	SWPCB Tank Id:	50 000 031836 000001
	Tank Status:	Δ
	Canacity:	500
	Active Date	07-01-85
	Tank Use	M V FUFI
	STG:	P
	Content:	REG UNLEADED
	Number Of Tanks:	1
	CA FID UST:	
	Facility ID:	50003408
	Regulated By:	UTNKA
	Regulated ID:	00031836
	Cortese Code:	Not reported
	SIC Code:	Not reported

Regulated By:	UTNKA
Regulated ID:	00031836
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	525 ROSE LAWN AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	MODESTO 95351
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

S101626236

SWEEPS UST S101626160 CA FID UST N/A

Database(s)

EDR ID Number EPA ID Number

4 NNW 1/2-1 0.811 mi. 4281 ft.	RUDY BONZI'S SANITARY LA 2650 WEST HATCH ROAD MODESTO, CA 95351	NDFILL	ENVIROSTOR WMUDS/SWAT	S101612334 N/A
Relative:	ENVIROSTOR:	50400008		
Lower	Status:	Befer: BWOCB		
	Status Date:	11/12/2008		
73 ft.	Site Code:	101081		
	Site Type:	Evaluation		
	Site Type.	Evaluation		
	Acres:	1		
	NPL ·	NO		
	Begulatory Agencies:	US EPA, STANISI AUS COUNTY		
	Lead Agency:	STANISI AUS COUNTY		
	Program Manager	Not reported		
	Supervisor:	Referred - Not Assigned		
	Division Branch	Cleanun Sacramento		
	Assembly:	21		
	Senate:	12		
	Special Program	FPA - PASI		
	Restricted Use:	NO		
	Site Mamt Rea:	NONE SPECIFIED		
	Fundina:	Not reported		
	Latitude:	37.60566		
	Longitude:	-121.0368		
	APN:	NONE SPECIFIED		
	Past Use:	NONE SPECIFIED		
	Potential COC:	NONE SPECIFIED		
	Confirmed COC:	NONE SPECIFIED		
	Potential Description:	NONE SPECIFIED		
	Alias Name:	CAD058410374		
	Alias Type:	EPA Identification Number		
	Alias Name:	101981		
	Alias Type:	Project Code (Site Code)		
	Alias Name:	50490008		
	Alias Type:	Envirostor ID Number		
	Completed Info:			
	Completed Area Name:	PROJECT WIDE		
	Completed Sub Area Nam	ne: Not reported		
	Completed Document Typ	e: * Discovery		
	Completed Date:	07/13/1989		
	Comments:	US EPA FIELD INVESTIGATION TEAM (FIT) SCR	REENING SITE INSPEC	CTION
		(SSI). EPA COMPLETED SCREENING. EPA/CEF SITE.	CLA SITE. PENDING S	STATUS: EPA
	Completed Area Name	PROJECT WIDE		
	Completed Sub Area Nam	ne. Not reported		
	Completed Document Tvr	e: Site Screening		
	Completed Date:	12/29/1993		
	Comments:	The site is monitored by the Regional Water Qualit	ty Control Board.	
		Over 60 monitoring wells are in place around the s	ite. Three	
		extraction wells, a stripping tower, and a carbon fill	tration system	
		have been installed at the landfill and 12 domestic.	, private wells	
		are sampled around the landfill. No municipal wells	s have been	
		impacted. Contaminants include: 1,1-dichloroethar	ne, benzene,	
		methylene chloride, dichlorobenzene, chloroethane	e, carbon	

Map ID Direction		MAP FINDINGS	
Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
	RUDY BONZI'S SANITARY LAN	IDFILL (Continued)	S101612334
		tetrachloride, chloroebenzene, and ten other constituents.	
	Completed Area Name: Completed Sub Area Name Completed Document Type Completed Date: Comments:	PROJECT WIDE Not reported PA/SI Reassessment 11/10/2008 A reassessment of the site was conducted for USEPA under the PA/SI grant.	
	Future Area Name: Future Sub Area Name: Future Document Type: Future Due Date: Schedule Area Name: Schedule Sub Area Name: Schedule Document Type: Schedule Due Date: Schedule Revised Date:	Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported Not reported	
	WMUDS/SWAT:		
	Edit Date:	Not reported	
	Primary Waste: Primary Waste Type:	waste treatment system (except for septic systems with subsurface disposal), or any Class II or III disposal site, or facilities without treatment systems that are complex, such as marinas with petroleum products, solid wastes, and sewage pump out facilities. SLDWST Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).	
	Secondary Waste: Secondary Waste Type: Base Meridian: NPID: Tonnage: Regional Board ID: Municipal Solid Waste: Superorder: Open To Public: Waste List:	Not reported Not reported MD Not reported 200 Not reported False False False	
	Agency Type: Agency Name: Agency Department: Agency Department: Agency Address: Agency City,St,Zip: Agency Contact: Agency Telephone: Land Owner Name: Land Owner Name: Land Owner Address: Land Owner Contact: Land Owner Contact: Land Owner Phone: Region: Facility Type: Facility Description:	Private Private BONZI SANITATION LANDFILL, INC Not reported 2650 WEST HATCH RD MODESTO CA 95351 STEVE BONZI 2095381430 RUDY BONZI 2650 W. HATCH RD. MODESTO, CA 95351 Not reported 2095379876 5S Solid Waste Site-Class III - Landfills for non hazardous solid wastes. Not reported	

Map ID	
Direction	
Distance	
Elevation	Site

Database(s)

EDR ID Number EPA ID Number

S101612334

## RUDY BONZI'S SANITARY LANDFILL (Continued)

Facility Telephone:	Not reported	
SWAT Facility Name:	BONZI SANI	TARY LANDFILL, INC.
Primary SIC:	4953	
Secondary SIC:	Not reported	
Comments:	Not reported	
Last Facility Editors:	Not reported	
Waste Discharge System:	True	
Solid Waste Assessment T	est Program:	True
Toxic Pits Cleanup Act Pro	gram:	False
Resource Conservation Re	ecovery Act:	False
Department of Defence:		False
Solid Waste Assessment T	est Program:	RUDY BONZI
Threat to Water Quality:		Moderate Threat to Water Quality. A violation could have a major
		adverse impact on receiving biota, can cause aesthetic impairment to a
		significant human population, or render unusable a potential domestic
		or municipal water supply. Awsthetic impairment would include nuisance
		from a waste treatment facility.
Sub Chapter 15:		True
Regional Board Project Off	icer:	WWA
Number of WMUDS at Fac	ility:	5
Section Range:		04S08E12
RCRA Facility:		No
Waste Discharge Requiren	nents:	A
Self-Monitoring Rept. Freq	uency:	Semiannual Submittal
Waste Discharge System I	D:	5C500300001
Solid Waste Information ID	:	50-AA-0003

#### Count: 12 records.

#### ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	
HUGHSON	S107537633		AT WHITMORE AVENUE AND HICKMAN	95358	CDL	
MODESTO	S107537473		ADJACENT TO CANAL 1/8 MILE NE	95358	CDL	
MODESTO	S114730421	MODESTO CITY DS, E/W CARPENTER ROA	CARPENTER RD. AT TUOLUMNE RIVE		RGA LF	
MODESTO	S107537996		CARPENTER RD & WHITMORE (SEE C		CDL	
MODESTO	S117696918	CARPENTER RD & TORRID AVE RETAIL C	NW CORNER OF CARPENTER RD & TO	95358	NPDES	
MODESTO	S107540096		TAYLOR RD, .75 MI E OF CARPENT		CDL	
MODESTO	S109254161		E USTICK RD, BETWEEN WHITMORE	95358	CDL	
MODESTO	S105693565	GILROY FOODS CASE # 2	705 WHITMORE		LUST	
MODESTO	S107540144		ON WHITMORE AVE	95358	CDL	
MODESTO	S107541212		WHITMORE AVE, NEAR CARPENTER R	95358	CDL	
MODESTO	S107541213		WHITMORE RD, 1/2 MI W OF CARPE	95358	CDL	
MODESTO	S107541210		WHITMORE AVE, 1/2 MI S OF CARP	95358	CDL	

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: 03/07/2016 Date Data Arrived at EDR: 04/05/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 10 Source: EPA Telephone: N/A Last EDR Contact: 04/05/2016 Next Scheduled EDR Contact: 04/18/2016 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

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.

EPA Region 6

EPA Region 7

EPA Region 8

**EPA Region 9** 

Telephone: 214-655-6659

Telephone: 913-551-7247

Telephone: 303-312-6774

Telephone: 415-947-4246

Date of Government Version: 03/07/2016 Date Data Arrived at EDR: 04/05/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 10

Source: EPA Telephone: N/A Last EDR Contact: 04/05/2016 Next Scheduled EDR Contact: 04/18/2016 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: 03/07/2016 Date Data Arrived at EDR: 04/05/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 10 Source: EPA Telephone: N/A Last EDR Contact: 04/05/2016 Next Scheduled EDR Contact: 04/18/2016 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: 03/26/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/08/2015	Telephone: 703-603-8704
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 04/08/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 07/18/2016
	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: 03/07/2016 Date Data Arrived at EDR: 04/05/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 10 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 04/05/2016 Next Scheduled EDR Contact: 08/01/2016 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: 03/07/2016 Date Data Arrived at EDR: 04/05/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 10 Source: EPA Telephone: 800-424-9346 Last EDR Contact: 04/05/2016 Next Scheduled EDR Contact: 08/01/2016 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: 12/09/2015	Source: EPA
Date Data Arrived at EDR: 03/02/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/05/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 34	Next Scheduled EDR Contact: 07/11/2016
	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: 12/09/2015 Date Data Arrived at EDR: 03/02/2016 Date Made Active in Reports: 04/05/2016 Number of Days to Update: 34 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 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: 12/09/2015 Date Data Arrived at EDR: 03/02/2016 Date Made Active in Reports: 04/05/2016 Number of Days to Update: 34 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 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: 12/09/2015 Date Data Arrived at EDR: 03/02/2016 Date Made Active in Reports: 04/05/2016 Number of Days to Update: 34 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 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: 12/09/2015Source: EDate Data Arrived at EDR: 03/02/2016TelephoneDate Made Active in Reports: 04/05/2016Last EDRNumber of Days to Update: 34Next ScheDate DataDate Sche

Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Varies

#### 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: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 02/16/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 05/30/2016
	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: 09/10/2015	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/11/2015	Telephone: 703-603-0695
Date Made Active in Reports: 11/03/2015	Last EDR Contact: 02/29/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/13/2016
	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: 09/10/2015 Date Data Arrived at EDR: 09/11/2015 Date Made Active in Reports: 11/03/2015 Number of Days to Update: 53

Source: Environmental Protection Agency Telephone: 703-603-0695 Last EDR Contact: 02/29/2016 Next Scheduled EDR Contact: 06/13/2016 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: 06/22/2015 Date Data Arrived at EDR: 06/26/2015 Date Made Active in Reports: 09/16/2015 Number of Days to Update: 82 Source: National Response Center, United States Coast Guard Telephone: 202-267-2180 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Annually

#### 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: 02/01/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/03/2016	Telephone: 916-323-3400
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 02/03/2016
Number of Days to Update: 48	Next Scheduled EDR Contact: 05/16/2016
	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: 02/01/2016 Date Data Arrived at EDR: 02/03/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 48 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 02/03/2016 Next Scheduled EDR Contact: 05/16/2016 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 inventory 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: 02/15/2016 Date Data Arrived at EDR: 02/17/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 44 Source: Department of Resources Recycling and Recovery Telephone: 916-341-6320 Last EDR Contact: 02/17/2016 Next Scheduled EDR Contact: 05/30/2016 Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

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 8: Leaking Underground Storage Tank California Regional Water Quality Control Boa to the State Water Resources Control Board's	s Ird Santa Ana Region (8). For more current information, please refer 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 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	
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 6V: Leaking Underground Storage Tan Leaking Underground Storage Tank locations.	k Case Listing . 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 Tanl For more current information, please refer to t	k Case Listing he 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 Leaking Underground Storage Tank locations.	Database . 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
LUS	FREG 3: Leaking Underground Storage Tank D Leaking Underground Storage Tank locations. I	Database 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
LUS	TREG 2: Fuel Leak List Leaking Underground Storage Tank locations. / Clara, Solano, Sonoma counties.	Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa
	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
LUS	REG 1: Active Toxic Site Investigation Del Norte, Humboldt, Lake, Mendocino, Modoc please refer to the State Water Resources Cont	, Siskiyou, Sonoma, Trinity counties. For more current information, trol 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
LUS <sup>-</sup>	C: Geotracker's Leaking Underground Fuel Tank Leaking Underground Storage Tank Incident Re storage tank incidents. Not all states maintain th more information on a particular leaking underg agency.	k Report eports. LUST records contain an inventory of reported leaking underground hese records, and the information stored varies by state. For rround storage tank sites, please contact the appropriate regulatory
	Date of Government Version: 12/14/2015 Date Data Arrived at EDR: 12/14/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 56	Source: State Water Resources Control Board Telephone: see region list Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Quarterly
INDI	AN LUST R7: Leaking Underground Storage Ta LUSTs on Indian land in Iowa, Kansas, and Nel	nks on Indian Land braska
	Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/28/2015 Date Made Active in Reports: 06/22/2015 Number of Days to Update: 55	Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies
INDI	AN LUST R9: Leaking Underground Storage Ta	unks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

	Date of Government Version: 01/08/2015 Date Data Arrived at EDR: 01/08/2015 Date Made Active in Reports: 02/09/2015 Number of Days to Update: 32	Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 01/27/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly
INDI	AN LUST R10: Leaking Underground Storage T LUSTs on Indian land in Alaska, Idaho, Oregor	anks on Indian Land and Washington.
	Date of Government Version: 01/07/2016 Date Data Arrived at EDR: 01/08/2016 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 41	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly
INDI	AN LUST R1: Leaking Underground Storage Ta A listing of leaking underground storage tank lo	anks on Indian Land cations on Indian Land.
	Date of Government Version: 10/27/2015 Date Data Arrived at EDR: 10/29/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 67	Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies
INDI	AN LUST R4: Leaking Underground Storage Ta LUSTs on Indian land in Florida, Mississippi an	anks on Indian Land d North Carolina.
	Date of Government Version: 11/24/2015 Date Data Arrived at EDR: 12/01/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 34	Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Semi-Annually
INDI	AN LUST R8: Leaking Underground Storage Ta LUSTs on Indian land in Colorado, Montana, N	anks on Indian Land orth Dakota, South Dakota, Utah and Wyoming.
	Date of Government Version: 10/13/2015 Date Data Arrived at EDR: 10/23/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 118	Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly
INDI	AN LUST R6: Leaking Underground Storage Ta LUSTs on Indian land in New Mexico and Okla	anks on Indian Land homa.
	Date of Government Version: 08/20/2015 Date Data Arrived at EDR: 10/30/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 111	Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies
INDI	AN LUST R5: Leaking Underground Storage Ta Leaking underground storage tanks located on	anks on Indian Land Indian Land in Michigan, Minnesota and Wisconsin.
	Date of Government Version: 11/04/2015 Date Data Arrived at EDR: 11/13/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 52	Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016

Data Release Frequency: Varies

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SLIC: Statewide SLIC Cases 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: 12/14/2015 Date Data Arrived at EDR: 12/14/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 56	Source: State Water Resources Control Board Telephone: 866-480-1028 Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Varies	
SLIC REG 1: Active Toxic Site Investigations The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 The SLIC (Spills, Leaks, Investigations and Cle from spills, leaks, and similar discharges.	Cost Recovery Listing eanup) program is designed to protect and restore water quality	
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 C from spills, leaks, and similar discharges.	leanup) program is designed to protect and restore water quality	
	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 C from spills, leaks, and similar discharges.	leanup) program is designed to protect and restore water quality	
	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 stor	rage tanks.	
	Date of Government Version: 01/01/2010	Source: FEMA	

Date of Government Version: 01/01/2010	Source: FEMA
Date Data Arrived at EDR: 02/16/2010	Telephone: 202-646-5797
Date Made Active in Reports: 04/12/2010	Last EDR Contact: 04/11/2016
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Varies

UST:	ST: Active UST Facilities Active UST facilities gathered from the local regulatory agencies		
ם ם ר	Date of Government Version: 12/14/2015 Date Data Arrived at EDR: 12/14/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 56	Source: SWRCB Telephone: 916-341-5851 Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Semi-Annually	
AST:	ST: Aboveground Petroleum Storage Tank Facilities A listing of aboveground storage tank petroleum storage tank locations.		
ם ם ר	Date of Government Version: 08/01/2009 Date Data Arrived at EDR: 09/10/2009 Date Made Active in Reports: 10/01/2009 Number of Days to Update: 21	Source: California Environmental Protection Agency Telephone: 916-327-5092 Last EDR Contact: 03/11/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Quarterly	
INDIAI	N UST R5: Underground Storage Tanks on Inc The Indian Underground Storage Tank (UST) d and in EPA Region 5 (Michigan, Minnesota and	dian Land atabase provides information about underground storage tanks on Indian d Wisconsin and Tribal Nations).	
ם ם ר	Date of Government Version: 11/05/2015 Date Data Arrived at EDR: 11/13/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 52	Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies	
INDIAI	N UST R6: Underground Storage Tanks on Inc The Indian Underground Storage Tank (UST) d and in EPA Region 6 (Louisiana, Arkansas, Ok	dian Land atabase provides information about underground storage tanks on Indian lahoma, New Mexico, Texas and 65 Tribes).	
ם ם ו	Date of Government Version: 08/20/2015 Date Data Arrived at EDR: 10/30/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 111	Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Semi-Annually	
INDIAI	N UST R10: Underground Storage Tanks on Ir The Indian Underground Storage Tank (UST) d and in EPA Region 10 (Alaska, Idaho, Oregon,	ndian Land atabase provides information about underground storage tanks on Indian Washington, and Tribal Nations).	
] ] [ ]	Date of Government Version: 01/07/2016 Date Data Arrived at EDR: 01/08/2016 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 41	Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly	
INDIA T	N UST R8: Underground Storage Tanks on Inc The Indian Underground Storage Tank (UST) d and in EPA Region 8 (Colorado, Montana, Nort	dian Land atabase provides information about underground storage tanks on Indian th Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).	
] ] 1 1	Date of Government Version: 10/13/2015 Date Data Arrived at EDR: 10/23/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 118	Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly	
INDIAI T I	N UST R1: Underground Storage Tanks on Ind The Indian Underground Storage Tank (UST) d and in EPA Region 1 (Connecticut, Maine, Mas Nations).	dian Land atabase provides information about underground storage tanks on Indian ssachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal	

Date of Government Version: 10/20/2015 Date Data Arrived at EDR: 10/29/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 67 Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 05/09/2016 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 (lowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/23/2014 Date Data Arrived at EDR: 11/25/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 65 Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 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: 12/14/2014 Date Data Arrived at EDR: 02/13/2015 Date Made Active in Reports: 03/13/2015 Number of Days to Update: 28 Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/27/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly

#### 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: 11/24/2015 Date Data Arrived at EDR: 12/01/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 34 Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Semi-Annually

#### State and tribal voluntary cleanup sites

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: 02/01/2016SDate Data Arrived at EDR: 02/03/2016DDate Made Active in Reports: 03/22/2016DNumber of Days to Update: 48M

Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 02/03/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Quarterly

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	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 04/01/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

#### 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: 12/04/2015 Date Data Arrived at EDR: 12/08/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 44 Source: State Water Resources Control Board Telephone: 916-323-7905 Last EDR Contact: 03/07/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: Varies

#### 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 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: 12/22/2015 Date Data Arrived at EDR: 12/23/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 57 Source: Environmental Protection Agency Telephone: 202-566-2777 Last EDR Contact: 03/22/2016 Next Scheduled EDR Contact: 07/04/2016 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: 02/08/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

	Date of Government Version: 12/14/2015 Date Data Arrived at EDR: 12/17/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 53	Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Quarterly
HAU	ILERS: Registered Waste Tire Haulers Listing A listing of registered waste tire haulers.	
	Date of Government Version: 11/23/2015 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 58	Source: Integrated Waste Management Board Telephone: 916-341-6422 Last EDR Contact: 02/14/2016 Next Scheduled EDR Contact: 05/30/2016 Data Release Frequency: Varies
IND	AN ODI: Report on the Status of Open Dumps of Location of open dumps on Indian land.	on Indian Lands
	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: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Varies
DEB	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: 04/21/2016 Next Scheduled EDR Contact: 08/08/2016 Data Release Frequency: No Update Planned
ODI	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
Loc	al Lists of Hazardous waste / Contaminated S	Sites
US I	HIST CDL: National Clandestine Laboratory Reg A listing of clandestine drug lab locations that h Register.	gister ave been removed from the DEAs National Clandestine Laboratory
	Date of Government Version: 09/17/2015 Date Data Arrived at EDR: 12/04/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 76	Source: Drug Enforcement Administration Telephone: 202-307-1000 Last EDR Contact: 03/01/2016 Next Scheduled EDR Contact: 06/13/2016

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: 02/01/2016 Date Data Arrived at EDR: 02/03/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 48 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 02/03/2016 Next Scheduled EDR Contact: 05/16/2016 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: 09/30/2015	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/19/2016	Telephone: 916-255-6504
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 04/21/2016
Number of Days to Update: 63	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Varies

#### 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	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 01/26/2009
Number of Days to Update: 27	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: 09/17/2015	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 12/04/2015	Telephone: 202-307-1000
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 03/01/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 06/13/2016
	Data Release Frequency: Quarterly

#### 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: 11/25/2015	Source: Department of Public Health
Date Data Arrived at EDR: 12/01/2015	Telephone: 707-463-4466
Date Made Active in Reports: 12/17/2015	Last EDR Contact: 03/28/2016
Number of Days to Update: 16	Next Scheduled EDR Contact: 06/13/2016
	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

### 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: 12/17/2015 Date Data Arrived at EDR: 12/22/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 48 Source: Department of Toxic Substances Control Telephone: 916-323-3400 Last EDR Contact: 03/07/2016 Next Scheduled EDR Contact: 06/20/2016 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: 02/18/2014 Date Data Arrived at EDR: 03/18/2014 Date Made Active in Reports: 04/24/2014 Number of Days to Update: 37 Source: Environmental Protection Agency Telephone: 202-564-6023 Last EDR Contact: 03/11/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies

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: 12/07/2015 Date Data Arrived at EDR: 12/08/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 44 Source: DTSC and SWRCB Telephone: 916-323-3400 Last EDR Contact: 03/08/2016 Next Scheduled EDR Contact: 06/20/2016 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: 06/24/2015	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/26/2015	Telephone: 202-366-4555
Date Made Active in Reports: 09/02/2015	Last EDR Contact: 03/30/2016
Number of Days to Update: 68	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Annually

### 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: 12/16/2015 Date Data Arrived at EDR: 01/27/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 55 Source: Office of Emergency Services Telephone: 916-845-8400 Last EDR Contact: 01/27/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Varies

#### LDS: Land Disposal Sites Listing

The Land Disposal program regulates of waste discharge to land for treatment, storage and disposal in waste management units.

Date of Government Version: 12/14/2015Date Data Arrived at EDR: 12/14/2015Date Made Active in Reports: 02/08/2016Number of Days to Update: 56

Source: State Water Quality Control Board Telephone: 866-480-1028 Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Quarterly

#### MCS: Military Cleanup Sites Listing

The State Water Resources Control Board and nine Regional Water Quality Control Boards partner with the Department of Defense (DoD) through the Defense and State Memorandum of Agreement (DSMOA) to oversee the investigation and remediation of water quality issues at military facilities.

Date of Government Version: 12/14/2015	Source: State Water Resources Control Board
Date Data Arrived at EDR: 12/14/2015	Telephone: 866-480-1028
Date Made Active in Reports: 02/08/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 56	Next Scheduled EDR Contact: 06/27/2016
	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: 06/06/2012Source: FirstSearchDate Data Arrived at EDR: 01/03/2013Telephone: N/ADate Made Active in Reports: 02/22/2013Last EDR Contact: 01/03/2013Number of Days to Update: 50Next Scheduled EDR Contact: N/AData 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: 12/09/2015 Date Data Arrived at EDR: 03/02/2016 Date Made Active in Reports: 04/05/2016 Number of Days to Update: 34 Source: Environmental Protection Agency Telephone: (415) 495-8895 Last EDR Contact: 03/30/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Varies

#### 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: 03/11/2016 Next Scheduled EDR Contact: 06/20/2016 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: 04/15/2016 Next Scheduled EDR Contact: 07/25/2016 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: 04/15/2016 Next Scheduled EDR Contact: 07/25/2016 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: 03/07/2011 Date Data Arrived at EDR: 03/09/2011 Date Made Active in Reports: 05/02/2011 Number of Days to Update: 54 Source: Environmental Protection Agency Telephone: 615-532-8599 Last EDR Contact: 02/19/2016 Next Scheduled EDR Contact: 05/30/2016 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: 09/01/2015 Date Data Arrived at EDR: 09/03/2015 Date Made Active in Reports: 11/03/2015 Number of Days to Update: 61 Source: Environmental Protection Agency Telephone: 202-566-1917 Last EDR Contact: 02/16/2016 Next Scheduled EDR Contact: 05/30/2016 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: 02/09/2016 Next Scheduled EDR Contact: 05/23/2016 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: 04/22/2013 Date Data Arrived at EDR: 03/03/2015 Date Made Active in Reports: 03/09/2015 Number of Days to Update: 6 Source: Environmental Protection Agency Telephone: 703-308-4044 Last EDR Contact: 02/12/2016 Next Scheduled EDR Contact: 05/23/2016 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: 12/31/2012 Date Data Arrived at EDR: 01/15/2015 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 14 Source: EPA Telephone: 202-260-5521 Last EDR Contact: 03/24/2016 Next Scheduled EDR Contact: 07/04/2016 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: 12/31/2014 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 04/05/2016 Number of Days to Update: 133 Source: EPA Telephone: 202-566-0250 Last EDR Contact: 02/24/2016 Next Scheduled EDR Contact: 06/06/2016 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: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 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.

Source: EPA
Telephone: 7
Last EDR Co
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Source: EPA Telephone: 703-416-0223 Last EDR Contact: 03/08/2016 Next Scheduled EDR Contact: 06/20/2016 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: 08/01/2015 Date Data Arrived at EDR: 08/26/2015 Date Made Active in Reports: 11/03/2015 Number of Days to Update: 69 Source: Environmental Protection Agency Telephone: 202-564-8600 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 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 Part	ties	
Date of Government Version: 10/25/2013 Date Data Arrived at EDR: 10/17/2014 Date Made Active in Reports: 10/20/2014 Number of Days to Update: 3	Source: EPA Telephone: 202-564-6023 Last EDR Contact: 02/12/2016 Next Scheduled EDR Contact: 05/23/2016 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: 07/01/2014 Date Data Arrived at EDR: 10/15/2014 Date Made Active in Reports: 11/17/2014 Number of Days to Update: 33	Source: EPA Telephone: 202-566-0500 Last EDR Contact: 04/12/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Annually	
CIS: 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: 01/23/2015 Date Data Arrived at EDR: 02/06/2015 Date Made Active in Reports: 03/09/2015 Number of Days to Update: 31	Source: Environmental Protection Agency Telephone: 202-564-5088 Last EDR Contact: 04/08/2016 Next Scheduled EDR Contact: 07/25/2016 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: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 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: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 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: 03/07/2016 Date Data Arrived at EDR: 03/18/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 28	Source: Nuclear Regulatory Commission Telephone: 301-415-7169 Last EDR Contact: 02/08/2016 Next Scheduled EDR Contact: 05/23/2016 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	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 04/15/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 07/25/2016
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 03/11/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 06/20/2016
	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: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 01/29/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 05/09/2016
	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: 07/07/2015 Date Data Arrived at EDR: 07/09/2015 Date Made Active in Reports: 09/16/2015 Number of Days to Update: 69

Source: Environmental Protection Agency Telephone: 202-343-9775 Last EDR Contact: 04/08/2016 Next Scheduled EDR Contact: 07/18/2016 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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012 Number of Days to Update: 42	Source: Department of Transporation, Office of Pipeline Safety Telephone: 202-366-4595 Last EDR Contact: 02/03/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Varies	
CON	SENT: Superfund (CERCLA) Consent Decrees Major legal settlements that establish responsit periodically by United States District Courts after	pility and standards for cleanup at NPL (Superfund) sites. Released er settlement by parties to litigation matters.	
	Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 04/17/2015 Date Made Active in Reports: 06/02/2015 Number of Days to Update: 46	Source: Department of Justice, Consent Decree Library Telephone: Varies Last EDR Contact: 03/24/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Varies	
BRS	RS: 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: 12/31/2013 Date Data Arrived at EDR: 02/24/2015 Date Made Active in Reports: 09/30/2015 Number of Days to Update: 218	Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 02/26/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Biennially	
INDI	AN RESERV: Indian Reservations This map layer portrays Indian administered lar than 640 acres.	nds of the United States that have any area equal to or greater	
	Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 12/08/2006 Date Made Active in Reports: 01/11/2007 Number of Days to Update: 34	Source: USGS Telephone: 202-208-3710 Last EDR Contact: 04/15/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Semi-Annually	
FUS	RAP: Formerly Utilized Sites Remedial Action P DOE established the Formerly Utilized Sites Re radioactive contamination remained from Manh	rogram medial Action Program (FUSRAP) in 1974 to remediate sites where attan Project and early U.S. Atomic Energy Commission (AEC) operations.	
	Date of Government Version: 11/23/2015 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 86	Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 02/08/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Varies	
UMT	RA: 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: 09/14/2010 Date Data Arrived at EDR: 10/07/2011	Source: Department of Energy Telephone: 505-845-0011		
Date Made Active in Reports: 03/01/2012 Number of Days to Update: 146	Last EDR Contact: 03/28/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies		
LEAD SMELTER 1: Lead Smelter Sites A listing of former lead smelter site locations.			
Date of Government Version: 11/25/2014 Date Data Arrived at EDR: 11/26/2014 Date Made Active in Reports: 01/29/2015 Number of Days to Update: 64	Source: Environmental Protection Agency Telephone: 703-603-8787 Last EDR Contact: 04/07/2016 Next Scheduled EDR Contact: 07/18/2016 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	Source: American Journal of Public Health Telephone: 703-305-6451 Last EDR Contact: 12/02/2009		
Number of Days to Update: 36	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: 10/20/2015 Date Data Arrived at EDR: 10/27/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 69	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 03/24/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Annually		
US AIRS MINOR: Air Facility System Data A listing of minor source facilities.			
Date of Government Version: 10/20/2015 Date Data Arrived at EDR: 10/27/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 69	Source: EPA Telephone: 202-564-2496 Last EDR Contact: 03/24/2016 Next Scheduled EDR Contact: 07/11/2016 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: 02/09/2016 Date Data Arrived at EDR: 03/02/2016 Date Made Active in Reports: 04/15/2016 Number of Days to Update: 44	Source: Department of Labor, Mine Safety and Health Administration Telephone: 303-231-5959 Last EDR Contact: 03/02/2016 Next Scheduled EDR Contact: 06/13/2016 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: 03/04/2016 Next Scheduled EDR Contact: 06/13/2016 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: 03/04/2016 Next Scheduled EDR Contact: 06/13/2016 Data Release Frequency: Varies

## 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: 07/20/2015 Date Data Arrived at EDR: 09/09/2015 Date Made Active in Reports: 11/03/2015 Number of Days to Update: 55 Source: EPA Telephone: (415) 947-8000 Last EDR Contact: 03/08/2016 Next Scheduled EDR Contact: 06/20/2016 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	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	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: 12/28/2015	Source: CAL EPA/Office of Emergency Information
Date Data Arrived at EDR: 12/29/2015	Telephone: 916-323-3400
Date Made Active in Reports: 01/21/2016	Last EDR Contact: 03/30/2016
Number of Days to Update: 23	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Quarterly

## **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: 02/08/2016 Date Data Arrived at EDR: 02/24/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 37

Source: Department of Toxic Substance Control Telephone: 916-327-4498 Last EDR Contact: 02/05/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: Annually

#### EMI: Emissions Inventory Data Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies. Date of Government Version: 12/31/2013 Source: California Air Resources Board Date Data Arrived at EDR: 09/25/2015 Telephone: 916-322-2990 Date Made Active in Reports: 11/05/2015 Last EDR Contact: 03/22/2016 Next Scheduled EDR Contact: 07/04/2016 Number of Days to Update: 41 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: 01/26/2016 Source: State Water Resoruces Control Board Date Data Arrived at EDR: 01/29/2016 Telephone: 916-445-9379 Date Made Active in Reports: 03/22/2016 Last EDR Contact: 04/21/2016 Number of Days to Update: 53 Next Scheduled EDR Contact: 08/08/2016 Data Release Frequency: Varies Financial Assurance 1: Financial Assurance Information Listing Financial Assurance information Date of Government Version: 01/28/2016 Source: Department of Toxic Substances Control Date Data Arrived at EDR: 01/29/2016 Telephone: 916-255-3628 Date Made Active in Reports: 03/22/2016 Last EDR Contact: 04/21/2016 Number of Days to Update: 53 Next Scheduled EDR Contact: 08/08/2016 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. Source: California Integrated Waste Management Board Date of Government Version: 02/17/2016 Date Data Arrived at EDR: 02/23/2016 Telephone: 916-341-6066 Date Made Active in Reports: 04/01/2016 Last EDR Contact: 02/16/2016 Next Scheduled EDR Contact: 05/30/2016 Number of Days to Update: 38 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: 12/31/2014 Source: California Environmental Protection Agency Date Data Arrived at EDR: 10/14/2015 Telephone: 916-255-1136 Last EDR Contact: 04/15/2016 Date Made Active in Reports: 12/11/2015 Number of Days to Update: 58 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Annually 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 Source: Department of Toxic Substances Control Date Data Arrived at EDR: 01/22/2009 Telephone: 916-323-3400 Date Made Active in Reports: 04/08/2009 Last EDR Contact: 01/22/2009 Number of Days to Update: 76 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: 02/22/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 02/24/2016	Telephone: 916-323-3400
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 02/24/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 06/06/2016
	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: 01/11/2016	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 01/13/2016	Telephone: 916-440-7145
Date Made Active in Reports: 02/22/2016	Last EDR Contact: 04/12/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 07/25/2016
	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: 12/14/2015	Source: Department of Conservation
Date Data Arrived at EDR: 12/17/2015	Telephone: 916-322-1080
Date Made Active in Reports: 02/08/2016	Last EDR Contact: 03/16/2016
Number of Days to Update: 53	Next Scheduled EDR Contact: 06/27/2016
	Data Release Frequency: Varies

## 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: 11/10/2015	Source: Department of Public Health
Date Data Arrived at EDR: 12/08/2015	Telephone: 916-558-1784
Date Made Active in Reports: 01/21/2016	Last EDR Contact: 03/08/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Varies

## NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 02/16/2016	Source: State Water Resources Control Board
Date Data Arrived at EDR: 02/17/2016	Telephone: 916-445-9379
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 02/17/2016
Number of Days to Update: 44	Next Scheduled EDR Contact: 05/30/2016
	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: 12/07/2015
Date Data Arrived at EDR: 12/08/2015
Date Made Active in Reports: 01/21/2016
Number of Days to Update: 44

Source: Department of Pesticide Regulation Telephone: 916-445-4038 Last EDR Contact: 03/08/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: Quarterly

## PROC: Certified Processors Database A listing of certified processors.

Date of Government Version: 12/14/2015 Date Data Arrived at EDR: 12/17/2015 Date Made Active in Reports: 03/01/2016 Number of Days to Update: 75

Source: Department of Conservation Telephone: 916-323-3836 Last EDR Contact: 03/16/2016 Next Scheduled EDR Contact: 06/27/2016 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: 09/10/2015 Date Data Arrived at EDR: 01/05/2016 Date Made Active in Reports: 02/12/2016 Number of Days to Update: 38 Source: State Water Resources Control Board Telephone: 916-445-3846 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 07/04/2016 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: 07/23/2015	Source: Deaprtment of Conservation
Date Data Arrived at EDR: 09/15/2015	Telephone: 916-445-2408
Date Made Active in Reports: 10/13/2015	Last EDR Contact: 03/16/2016
Number of Days to Update: 28	Next Scheduled EDR Contact: 06/27/2016
	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 board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015SourDate Data Arrived at EDR: 04/17/2015TelepDate Made Active in Reports: 06/23/2015LastNumber of Days to Update: 67Next

Source: RWQCB, Central Valley Region Telephone: 559-445-5577 Last EDR Contact: 01/15/2016 Next Scheduled EDR Contact: 04/25/2016 Data Release Frequency: Varies

#### WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version:	06/19/2007	Source: State Water Resources Control Board
Date Data Arrived at EDR: 06	6/20/2007	Telephone: 916-341-5227
Date Made Active in Reports:	06/29/2007	Last EDR Contact: 02/19/2016
Number of Days to Update: 9		Next Scheduled EDR Contact: 06/16/2016
		Data Release Frequency: Quarterly

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	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/21/2009	Telephone: 213-576-6726
Date Made Active in Reports: 08/03/2009	Last EDR Contact: 03/28/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 07/11/2016
	Data Release Frequency: Varies

## 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: 11/23/2015 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 02/18/2016 Number of Days to Update: 86 Source: EPA Telephone: 800-385-6164 Last EDR Contact: 02/24/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/20/2015 Date Data Arrived at EDR: 09/23/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 103 Source: Environmental Protection Agency Telephone: 202-564-2280 Last EDR Contact: 03/23/2016 Next Scheduled EDR Contact: 07/04/2016 Data Release Frequency: Quarterly

## 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 Historic Gas 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 Historic Dry 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:

#### **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: 01/11/2016 Date Data Arrived at EDR: 01/12/2016 Date Made Active in Reports: 02/22/2016 Number of Days to Update: 41 Source: Alameda County Environmental Health Services Telephone: 510-567-6700 Last EDR Contact: 04/11/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Semi-Annually

#### Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 01/11/2016	Source: Alameda County Environmental Health Services
Date Data Arrived at EDR: 01/14/2016	Telephone: 510-567-6700
Date Made Active in Reports: 03/01/2016	Last EDR Contact: 04/11/2016
Number of Days to Update: 47	Next Scheduled EDR Contact: 07/25/2016
	Data Release Frequency: Semi-Annually

AMADOR COUNTY:

# CUPA Facility List

### Cupa Facility List

Date of Government Version: 11/16/2015 Date Data Arrived at EDR: 12/10/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 42

#### BUTTE COUNTY:

### CUPA Facility Listing Cupa facility list.

Date of Government Version: 02/19/2016 Date Data Arrived at EDR: 02/23/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 38 Source: Amador County Environmental Health Telephone: 209-223-6439 Last EDR Contact: 03/21/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: Varies

Source: Public Health Department Telephone: 530-538-7149 Last EDR Contact: 04/21/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: No Update Planned

## CALVERAS COUNTY:

# CUPA Facility Listing

Cupa Facility Listing

Date of Government Version: 02/02/2016 Date Data Arrived at EDR: 02/04/2016 Date Made Active in Reports: 02/22/2016 Number of Days to Update: 18 Source: Calveras County Environmental Health Telephone: 209-754-6399 Last EDR Contact: 03/28/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Quarterly

### COLUSA COUNTY:

# CUPA Facility List

Cupa facility list.

Date of Government Version: 02/22/2016 Date Data Arrived at EDR: 02/24/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 37 Source: Health & Human Services Telephone: 530-458-0396 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Varies

## CONTRA COSTA COUNTY:

#### Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 02/24/2016 Date Data Arrived at EDR: 02/26/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 35 Source: Contra Costa Health Services Department Telephone: 925-646-2286 Last EDR Contact: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

## CUPA Facility List

#### Cupa Facility list

Date of Government Version: 01/22/2016 Date Data Arrived at EDR: 02/05/2016 Date Made Active in Reports: 03/07/2016 Number of Days to Update: 31 Source: Del Norte County Environmental Health Division Telephone: 707-465-0426 Last EDR Contact: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Varies

### EL DORADO COUNTY:

# CUPA Facility List

CUPA facility list.

Date of Government Version: 02/22/2016 Date Data Arrived at EDR: 02/24/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 37 Source: El Dorado County Environmental Management Department Telephone: 530-621-6623 Last EDR Contact: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Varies

## FRESNO COUNTY:

#### **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: 01/05/2016 Date Data Arrived at EDR: 01/08/2016 Date Made Active in Reports: 02/22/2016 Number of Days to Update: 45 Source: Dept. of Community Health Telephone: 559-445-3271 Last EDR Contact: 04/04/2016 Next Scheduled EDR Contact: 07/18/2016 Data Release Frequency: Semi-Annually

### HUMBOLDT COUNTY:

### CUPA Facility List CUPA facility list.

Date of Government Version: 12/02/2015 Date Data Arrived at EDR: 12/04/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 48 Source: Humboldt County Environmental Health Telephone: N/A Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

## IMPERIAL COUNTY:

# CUPA Facility List

Cupa facility list.

Date of Government Version: 01/25/2016 Date Data Arrived at EDR: 01/27/2016 Date Made Active in Reports: 02/22/2016 Number of Days to Update: 26 Source: San Diego Border Field Office Telephone: 760-339-2777 Last EDR Contact: 04/21/2016 Next Scheduled EDR Contact: 08/08/2016 Data Release Frequency: Varies

## INYO COUNTY:

## CUPA Facility List

#### Cupa facility list.

Date of Government Version: 09/10/2013 Date Data Arrived at EDR: 09/11/2013 Date Made Active in Reports: 10/14/2013 Number of Days to Update: 33 Source: Inyo County Environmental Health Services Telephone: 760-878-0238 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

## KERN COUNTY:

Underground Storage Tank Sites & Tank Listing Kern County Sites and Tanks Listing.

> Date of Government Version: 05/19/2015 Date Data Arrived at EDR: 06/18/2015 Date Made Active in Reports: 07/22/2015 Number of Days to Update: 34

Source: Kern County Environment Health Services Department Telephone: 661-862-8700 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Quarterly

## KINGS COUNTY:

## **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: 02/23/2016 Date Data Arrived at EDR: 02/25/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 36 Source: Kings County Department of Public Health Telephone: 559-584-1411 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

# LAKE COUNTY:

#### CUPA Facility List Cupa facility list

Date of Government Version: 02/09/2016 Date Data Arrived at EDR: 02/12/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 49

Source: Lake County Environmental Health Telephone: 707-263-1164 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Varies

### LOS ANGELES COUNTY:

#### San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

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: EPA Region 9 Telephone: 415-972-3178 Last EDR Contact: 03/21/2016 Next Scheduled EDR Contact: 07/04/2016 Data Release Frequency: No Update Planned

## HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/24/2014 Date Data Arrived at EDR: 01/30/2015 Date Made Active in Reports: 03/04/2015 Number of Days to Update: 33	Source: Department of Public Works Telephone: 626-458-3517 Last EDR Contact: 04/01/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Semi-Annually
List of Solid Waste Facilities Solid Waste Facilities in Los Angeles County.	
Date of Government Version: 01/19/2016 Date Data Arrived at EDR: 01/20/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 62	Source: La County Department of Public Works Telephone: 818-458-5185 Last EDR Contact: 04/20/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Varies
City of Los Angeles Landfills Landfills owned and maintained by the City of L	los Angeles.
Date of Government Version: 01/01/2016 Date Data Arrived at EDR: 01/26/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 56	Source: Engineering & Construction Division Telephone: 213-473-7869 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Varies
Site Mitigation List Industrial sites that have had some sort of spill	or complaint.
Date of Government Version: 01/15/2015 Date Data Arrived at EDR: 01/29/2015 Date Made Active in Reports: 03/10/2015 Number of Days to Update: 40	Source: Community Health Services Telephone: 323-890-7806 Last EDR Contact: 03/28/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Annually
City of El Segundo Underground Storage Tank Underground storage tank sites located in El Se	egundo city.
Date of Government Version: 03/30/2015 Date Data Arrived at EDR: 04/02/2015 Date Made Active in Reports: 04/13/2015 Number of Days to Update: 11	Source: City of El Segundo Fire Department Telephone: 310-524-2236 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Semi-Annually
City of Long Beach Underground Storage Tank Underground storage tank sites located in the o	sity of Long Beach.
Date of Government Version: 11/04/2015 Date Data Arrived at EDR: 11/13/2015 Date Made Active in Reports: 12/17/2015 Number of Days to Update: 34	Source: City of Long Beach Fire Department Telephone: 562-570-2563 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Annually
City of Torrance Underground Storage Tank Underground storage tank sites located in the o	city of Torrance.
Date of Government Version: 01/12/2016 Date Data Arrived at EDR: 01/15/2016 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 24	Source: City of Torrance Fire Department Telephone: 310-618-2973 Last EDR Contact: 01/11/2016 Next Scheduled EDR Contact: 04/25/2016

Data Release Frequency: Semi-Annually

MADERA COUNTY:

#### **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: 12/11/2015 Date Data Arrived at EDR: 12/14/2015 Date Made Active in Reports: 03/07/2016 Number of Days to Update: 84 Source: Madera County Environmental Health Telephone: 559-675-7823 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

# MARIN COUNTY:

Underground Storage Tank Sites Currently permitted USTs in Marin County.

> Date of Government Version: 10/05/2015 Date Data Arrived at EDR: 10/08/2015 Date Made Active in Reports: 10/15/2015 Number of Days to Update: 7

Source: Public Works Department Waste Management Telephone: 415-499-6647 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 07/18/2016 Data Release Frequency: Semi-Annually

## MERCED COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 12/14/2015 Date Data Arrived at EDR: 12/18/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 34 Source: Merced County Environmental Health Telephone: 209-381-1094 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

## MONO COUNTY:

CUPA Facility List CUPA Facility List

> Date of Government Version: 11/24/2015 Date Data Arrived at EDR: 12/01/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 51

Source: Mono County Health Department Telephone: 760-932-5580 Last EDR Contact: 02/29/2016 Next Scheduled EDR Contact: 06/13/2016 Data Release Frequency: Varies

#### MONTEREY COUNTY:

**CUPA Facility Listing** 

CUPA Program listing from the Environmental Health Division.

Date of Government Version: 12/10/2015 Date Data Arrived at EDR: 12/14/2015 Date Made Active in Reports: 02/12/2016 Number of Days to Update: 60 Source: Monterey County Health Department Telephone: 831-796-1297 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

### NAPA COUNTY:

#### Sites With Reported Contamination A listing of leaking underground storage tank sites located in Napa county. Date of Government Version: 12/05/2011 Source: Napa County Department of Environmental Management Date Data Arrived at EDR: 12/06/2011 Telephone: 707-253-4269 Date Made Active in Reports: 02/07/2012 Last EDR Contact: 02/29/2016 Next Scheduled EDR Contact: 06/13/2016 Number of Days to Update: 63 Data Release Frequency: No Update Planned Closed and Operating Underground Storage Tank Sites Underground storage tank sites located in Napa county. Date of Government Version: 01/15/2008 Source: Napa County Department of Environmental Management Date Data Arrived at EDR: 01/16/2008 Telephone: 707-253-4269 Last EDR Contact: 02/29/2016 Date Made Active in Reports: 02/08/2008 Number of Days to Update: 23 Next Scheduled EDR Contact: 06/13/2016 Data Release Frequency: No Update Planned **NEVADA COUNTY: CUPA Facility List** CUPA facility list. Date of Government Version: 01/27/2016 Source: Community Development Agency Date Data Arrived at EDR: 02/04/2016 Telephone: 530-265-1467 Date Made Active in Reports: 02/22/2016 Last EDR Contact: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 Number of Days to Update: 18 Data Release Frequency: Varies ORANGE COUNTY: List of Industrial Site Cleanups Petroleum and non-petroleum spills. Date of Government Version: 02/01/2016 Source: Health Care Agency Date Data Arrived at EDR: 02/12/2016 Telephone: 714-834-3446 Date Made Active in Reports: 04/01/2016 Last EDR Contact: 02/09/2016 Number of Days to Update: 49 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Annually List of Underground Storage Tank Cleanups Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/01/2016 Date Data Arrived at EDR: 02/12/2016

Date Made Active in Reports: 04/01/2016

Source: Health Care Agency Telephone: 714-834-3446 Last EDR Contact: 02/09/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Number of Days to Update: 49

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2016 Source: Health Care Agency Date Data Arrived at EDR: 02/10/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 51

Telephone: 714-834-3446 Last EDR Contact: 02/10/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Quarterly

## PLACER COUNTY:

#### Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 12/09/2015	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 12/11/2015	Telephone: 530-745-2363
Date Made Active in Reports: 01/21/2016	Last EDR Contact: 03/07/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/20/2016
	Data Release Frequency: Semi-Annually

#### **RIVERSIDE COUNTY:**

#### Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/20/2016 Date Data Arrived at EDR: 01/22/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 60

Source: Department of Environmental Health Telephone: 951-358-5055 Last EDR Contact: 03/21/2016 Next Scheduled EDR Contact: 07/04/2016 Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Underground storage tank sites located in Riverside county.

Date of Government Version: 01/20/2016	Source: Department of Environmental Health
Date Data Arrived at EDR: 01/22/2016	Telephone: 951-358-5055
Date Made Active in Reports: 03/22/2016	Last EDR Contact: 03/21/2016
Number of Days to Update: 60	Next Scheduled EDR Contact: 07/04/2016
	Data Release Frequency: Quarterly

## SACRAMENTO COUNTY:

Toxic Site Clean-Up List

List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/02/2015	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 01/05/2016	Telephone: 916-875-8406
Date Made Active in Reports: 02/12/2016	Last EDR Contact: 04/06/2016
Number of Days to Update: 38	Next Scheduled EDR Contact: 07/18/2016
	Data Release Frequency: Quarterly

### 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: 11/02/2015 Date Data Arrived at EDR: 01/05/2016 Date Made Active in Reports: 02/12/2016 Number of Days to Update: 38

Source: Sacramento County Environmental Management Telephone: 916-875-8406 Last EDR Contact: 04/06/2016 Next Scheduled EDR Contact: 07/18/2016 Data Release Frequency: Quarterly

### SAN BERNARDINO COUNTY:

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: 12/14/2015 Date Data Arrived at EDR: 12/18/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 52 Source: San Bernardino County Fire Department Hazardous Materials Division Telephone: 909-387-3041 Last EDR Contact: 02/08/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Quarterly

## SAN DIEGO COUNTY:

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: 09/23/2013Source: Hazardous Materials Management DivisionDate Data Arrived at EDR: 09/24/2013Telephone: 619-338-2268Date Made Active in Reports: 10/17/2013Last EDR Contact: 03/07/2016Number of Days to Update: 23Next Scheduled EDR Contact: 06/20/2016Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015 Date Data Arrived at EDR: 11/07/2015 Date Made Active in Reports: 01/04/2016 Number of Days to Update: 58 Source: Department of Health Services Telephone: 619-338-2209 Last EDR Contact: 04/21/2016 Next Scheduled EDR Contact: 08/08/2016 Data Release Frequency: Varies

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: 03/03/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: No Update Planned

#### SAN FRANCISCO COUNTY:

#### Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008	Source: Department Of Public Health San Francisco County
Date Data Arrived at EDR: 09/19/2008	Telephone: 415-252-3920
Date Made Active in Reports: 09/29/2008	Last EDR Contact: 02/08/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 05/23/2016
	Data Release Frequency: Quarterly

#### Underground Storage Tank Information

Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/29/2010 Date Data Arrived at EDR: 03/10/2011 Date Made Active in Reports: 03/15/2011 Number of Days to Update: 5 Source: Department of Public Health Telephone: 415-252-3920 Last EDR Contact: 02/08/2016 Next Scheduled EDR Contact: 05/23/2016 Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

#### San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 12/18/2015 Date Data Arrived at EDR: 12/22/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 48 Source: Environmental Health Department Telephone: N/A Last EDR Contact: 04/04/2016 Next Scheduled EDR Contact: 07/04/2016 Data Release Frequency: Semi-Annually

### SAN LUIS OBISPO COUNTY:

## **CUPA Facility List**

Cupa Facility List.

Date of Government Version: 02/22/2016 Date Data Arrived at EDR: 02/24/2016 Date Made Active in Reports: 04/01/2016 Number of Days to Update: 37 Source: San Luis Obispo County Public Health Department Telephone: 805-781-5596 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/21/2016 Data Release Frequency: Varies

# SAN MATEO COUNTY:

#### Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 10/14/2015 Date Data Arrived at EDR: 10/15/2015 Date Made Active in Reports: 11/16/2015 Number of Days to Update: 32 Source: San Mateo County Environmental Health Services Division Telephone: 650-363-1921 Last EDR Contact: 03/28/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Annually

### Fuel Leak List

A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 12/14/2015Source: San Mateo County Environmental Health Services DivisionDate Data Arrived at EDR: 12/17/2015Telephone: 650-363-1921Date Made Active in Reports: 02/08/2016Last EDR Contact: 03/14/2016Number of Days to Update: 53Next Scheduled EDR Contact: 06/27/2016Data Release Frequency: Semi-Annually

## SANTA BARBARA COUNTY:

#### CUPA Facility Listing

CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011Source: Santa Barbara County Public Health DepartmentDate Data Arrived at EDR: 09/09/2011Telephone: 805-686-8167Date Made Active in Reports: 10/07/2011Last EDR Contact: 02/22/2016Number of Days to Update: 28Next Scheduled EDR Contact: 06/06/2016Data Release Frequency: Varies

### SANTA CLARA COUNTY:

Cupa Facility List Cupa facility list

Date of Government Version: 11/18/2015 Date Data Arrived at EDR: 11/24/2015 Date Made Active in Reports: 12/11/2015 Number of Days to Update: 17 Source: Department of Environmental Health Telephone: 408-918-1973 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

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

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: 02/29/2016 Next Scheduled EDR Contact: 06/13/2016 Data Release Frequency: Annually

### Hazardous Material Facilities

Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 02/05/2016	Source: City of San Jose Fire Department
Date Data Arrived at EDR: 02/10/2016	Telephone: 408-535-7694
Date Made Active in Reports: 04/01/2016	Last EDR Contact: 02/08/2016
Number of Days to Update: 51	Next Scheduled EDR Contact: 05/23/2016
	Data Release Frequency: Annually

## SANTA CRUZ COUNTY:

CUPA Facility List CUPA facility listing.

> Date of Government Version: 11/18/2015 Date Data Arrived at EDR: 11/23/2015 Date Made Active in Reports: 12/11/2015 Number of Days to Update: 18

Source: Santa Cruz County Environmental Health Telephone: 831-464-2761 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

# SHASTA COUNTY:

# CUPA Facility List

Cupa Facility List.

Date of Government Version: 12/09/2015 Date Data Arrived at EDR: 12/10/2015 Date Made Active in Reports: 01/21/2016 Number of Days to Update: 42 Source: Shasta County Department of Resource Management Telephone: 530-225-5789 Last EDR Contact: 02/22/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Varies

#### SOLANO COUNTY:

#### Leaking Underground Storage Tanks A listing of leaking underground storage tank sites located in Solano county. Date of Government Version: 10/30/2015 Source: Solano County Department of Environmental Management Date Data Arrived at EDR: 12/14/2015 Telephone: 707-784-6770 Date Made Active in Reports: 02/08/2016 Last EDR Contact: 03/14/2016 Next Scheduled EDR Contact: 06/27/2016 Number of Days to Update: 56 Data Release Frequency: Quarterly **Underground Storage Tanks** Underground storage tank sites located in Solano county. Date of Government Version: 10/30/2015 Source: Solano County Department of Environmental Management Date Data Arrived at EDR: 12/14/2015 Telephone: 707-784-6770 Last EDR Contact: 03/14/2016 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 56 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Quarterly SONOMA COUNTY: Cupa Facility List Cupa Facility list Date of Government Version: 01/11/2016 Source: County of Sonoma Fire & Emergency Services Department Date Data Arrived at EDR: 01/14/2016 Telephone: 707-565-1174 Last EDR Contact: 03/28/2016 Date Made Active in Reports: 02/22/2016 Next Scheduled EDR Contact: 07/11/2016 Number of Days to Update: 39 Data Release Frequency: Varies

### Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2016 Date Data Arrived at EDR: 01/07/2016 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 32 Source: Department of Health Services Telephone: 707-565-6565 Last EDR Contact: 03/28/2016 Next Scheduled EDR Contact: 07/11/2016 Data Release Frequency: Quarterly

## SUTTER COUNTY:

Underground Storage Tanks Underground storage tank sites located in Sutter county.

Date of Government Version: 12/07/2015 Date Data Arrived at EDR: 12/08/2015 Date Made Active in Reports: 12/17/2015 Number of Days to Update: 9 Source: Sutter County Department of Agriculture Telephone: 530-822-7500 Last EDR Contact: 03/07/2016 Next Scheduled EDR Contact: 06/20/2016 Data Release Frequency: Semi-Annually

#### TUOLUMNE COUNTY:

# CUPA Facility List

Cupa facility list

Date of Government Version: 10/29/2015 Date Data Arrived at EDR: 10/30/2015 Date Made Active in Reports: 12/11/2015 Number of Days to Update: 42 Source: Divison of Environmental Health Telephone: 209-533-5633 Last EDR Contact: 04/21/2016 Next Scheduled EDR Contact: 08/08/2016 Data Release Frequency: Varies

#### VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and C The BWT list indicates by site address whethe Producer (W), and/or Underground Tank (T) in	Operating Underground Tanks er the Environmental Health Division has Business Plan (B), Waste nformation.
Date of Government Version: 12/28/2015 Date Data Arrived at EDR: 01/29/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 53	Source: Ventura County Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly
Inventory of Illegal Abandoned and Inactive Sites Ventura County Inventory of Closed, Illegal Al	pandoned, 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: 04/04/2016 Next Scheduled EDR Contact: 07/18/2016 Data Release Frequency: Annually
Listing of Underground Tank Cleanup Sites Ventura County Underground Storage Tank C	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: 02/14/2016 Next Scheduled EDR Contact: 05/30/2016 Data Release Frequency: Quarterly
Medical Waste Program List To protect public health and safety and the en Environmental Health Division Medical Waste disposal of medical waste throughout the Cou	vironment from potential exposure to disease causing agents, the Program regulates the generation, handling, storage, treatment and nty.
Date of Government Version: 12/28/2015 Date Data Arrived at EDR: 01/29/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 53	Source: Ventura County Resource Management Agency Telephone: 805-654-2813 Last EDR Contact: 01/25/2016 Next Scheduled EDR Contact: 05/09/2016 Data Release Frequency: Quarterly
Underground Tank Closed Sites List Ventura County Operating Underground Store	age Tank Sites (UST)/Underground Tank Closed Sites List.
Date of Government Version: 11/30/2015 Date Data Arrived at EDR: 12/17/2015 Date Made Active in Reports: 02/08/2016 Number of Days to Update: 53	Source: Environmental Health Division Telephone: 805-654-2813 Last EDR Contact: 03/17/2016 Next Scheduled EDR Contact: 06/27/2016 Data Release Frequency: Quarterly
YOLO COUNTY:	
Underground Storage Tank Comprehensive Facility Underground storage tank sites located in Yol	r Report lo county.
Date of Government Version: 02/01/2016 Date Data Arrived at EDR: 02/05/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 46	Source: Yolo County Department of Health Telephone: 530-666-8646 Last EDR Contact: 04/04/2016 Next Scheduled EDR Contact: 07/18/2016 Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List

CUPA facility listing for Yuba County.

Date of Government Version: 02/01/2016 Date Data Arrived at EDR: 02/05/2016 Date Made Active in Reports: 02/22/2016 Number of Days to Update: 17 Source: Yuba County Environmental Health Department Telephone: 530-749-7523 Last EDR Contact: 02/01/2016 Next Scheduled EDR Contact: 05/16/2016 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.

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: 07/30/2013 Date Data Arrived at EDR: 08/19/2013 Date Made Active in Reports: 10/03/2013 Number of Days to Update: 45	Source: Department of Energy & Environmental Protection Telephone: 860-424-3375 Last EDR Contact: 02/18/2016 Next Scheduled EDR Contact: 05/30/2016 Data Release Frequency: No Update Planned			
NJ N	IANIFEST: Manifest Information Hazardous waste manifest information.				
	Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 07/17/2015 Date Made Active in Reports: 08/12/2015 Number of Days to Update: 26	Source: Department of Environmental Protection Telephone: N/A Last EDR Contact: 04/12/2016 Next Scheduled EDR Contact: 07/25/2016 Data Release Frequency: Annually			
NY	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: 02/01/2016 Date Data Arrived at EDR: 02/03/2016 Date Made Active in Reports: 03/22/2016 Number of Days to Update: 48	Source: Department of Environmental Conservation Telephone: 518-402-8651 Last EDR Contact: 02/03/2016 Next Scheduled EDR Contact: 05/16/2016 Data Release Frequency: Annually			
PAN	ANIFEST: Manifest Information Hazardous waste manifest information.				
	Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/24/2015 Date Made Active in Reports: 08/18/2015 Number of Days to Update: 25	Source: Department of Environmental Protection Telephone: 717-783-8990 Last EDR Contact: 04/18/2016 Next Scheduled EDR Contact: 08/01/2016 Data Release Frequency: Annually			
RI M	ANIFEST: Manifest information Hazardous waste manifest information				
	Date of Government Version: 12/31/2013 Date Data Arrived at EDR: 06/19/2015 Date Made Active in Reports: 07/15/2015 Number of Days to Update: 26	Source: Department of Environmental Management Telephone: 401-222-2797 Last EDR Contact: 03/21/2016 Next Scheduled EDR Contact: 06/06/2016 Data Release Frequency: Annually			

#### WI MANIFEST: Manifest Information Hazardous waste manifest information.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 03/19/2015 Date Made Active in Reports: 04/07/2015 Number of Days to Update: 19 Source: Department of Natural Resources Telephone: N/A Last EDR Contact: 03/14/2016 Next Scheduled EDR Contact: 06/27/2016 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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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 & Game Telephone: 916-445-0411

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

CARPENTER ROAD AT WHITMORE AVE 2498 S CARPENTER ROAD MODESTO, CA 95358

# TARGET PROPERTY COORDINATES

Latitude (North):	37.595039 - 37° 35' 42.14"
Longitude (West):	121.030285 - 121° 1' 49.03"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	673895.5
UTM Y (Meters):	4162504.5
Elevation:	77 ft. above sea level

## USGS TOPOGRAPHIC MAP

Target Property Map:	5640378 BRUSH LAKE, 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 principal 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.

# **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 NNW

# 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.

# 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

Ν

Target Property County STANISLAUS, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	06099C - FEMA DFIRM Flood data
Additional Panels in search area:	Not Reported
ATIONAL WETLAND INVENTORY	NWI Electronic
NWI Quad at Target Property BRUSH LAKE	Data Coverage 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 Not Reported LOCATION FROM TP

GENERAL DIRECTION GROUNDWATER FLOW

# **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**

# **GEOLOGIC AGE IDENTIFICATION**

Era:	Cenozoic	Category:	Stratifed Sequence
System:	Quaternary	0,	·
Series:	Quaternary		
Code:	Q (decoded above as Era. Svstem & Ser	ries)	

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).



SITE NAME:	Carpenter Road At Whitmore Ave
ADDRESS:	2498 S Carpenter Road
	Modesto CA 95358
LAT/LONG:	37.595039 / 121.030285

# 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:	Dinuba
Soil Surface Texture:	sandy 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:	Moderately well drained
Hydric Status: Not hydric	
Corrosion Potential - Uncoated Steel:	High
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
2	9 inches	29 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.6
3	29 inches	59 inches	stratified very fine sand to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
Soli Map ID: 2	Soil	Map	ID: 2				
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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: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information							
	Βοι	undary		Classification Saturated				
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)	
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1	
2	11 inches	35 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1	
3	35 inches	59 inches	silt 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: 4 Min: 1.4	Max: 7.8 Min: 6.1	

Soil	Мар	ID: 3	
------	-----	-------	--

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: Not hydric	
Corrosion Potential - Uncoated Steel:	Moderate
Depth to Bedrock Min:	> 0 inches
Depth to Watertable Min:	> 0 inches

	Soil Layer Information						
	Bou	indary		Classi	Classification Saturated		
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1
2	11 inches	59 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.8 Min: 6.1

Soil Map ID: 4	
Soil Component Name:	Tujunga
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: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: >0 inches

Depth to Watertable Min: >0 inches

	Soil Layer Information						
	Boundary			Classification		Saturated hvdraulic	
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)
1	0 inches	9 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: 7.3 Min: 6.1
2	9 inches	59 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: 6.1

### 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 Nearest PWS within 1 mile
State Database	1.000

#### FEDERAL USGS WELL INFORMATION

MAP ID WELL ID LOCATION FROM TP

## FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	USGS40000183981	1/4 - 1/2 Mile East
3	USGS40000184033	1/2 - 1 Mile NW
6	USGS40000184067	1/2 - 1 Mile NNW
7	USGS40000184052	1/2 - 1 Mile NW

### 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 FROM	M TP
A1 4958 1/4 -   B4 20989 1/2 -   B5 4959 1/2 -   8 CADW60000019478 1/2 -	1/2 Mile East 1 Mile ENE 1 Mile ENE 1 Mile South



Cluster of Multiple Icons

SITE NAME: ADDRESS: LAT/LONG:	Carpenter Road At Whitmore Ave 2498 S Carpenter Road Modesto CA 95358 37.595039 / 121.030285	CLIENT: CONTACT: INQUIRY #: DATE:	Crawford & Associates Inc. Ben Crawford 4601166.2s April 25, 2016 2:02 pm
		Copyrig	aht © 2016 EDR. Inc. © 2015 TomTom Rel. 2015.

Map ID					
Direction					
Elevation				Database	EDR ID Number
A1					
East				CA WELLS	4958
1/4 - 1/2 Mile					
Higher					
Water System Information					
Prime Station Code: 0	4S/09E-07P01 M	User ID:	50C		
FRDS Number: 5	000201001	County:	Stanislaus		
District Number: 8	0	Station Type:	WELL/AMB	NT/MUN/INTAK	E
Water Type: W	Vell/Groundwater	Well Status:	Active Raw		
Source Lat/Long: 3	73544.0 1210116.0	Precision:	1,000 Feet (	10 Seconds)	
Source Name: W	VELL 01		, ,	,	
System Number: 5	000201				
System Name: F	AIRVIEW SCHOOL				
Organization That Operate	s System:				
N	lot Reported				
Pop Served: U	Inknown, Small System	Connections:	Unknown, S	mall System	
Area Served: N	lot Reported				
A2 Fast				FED USGS	USGS40000183981
1/4 - 1/2 Mile					000040000100001
Higher					
Org. Identifier:	USGS-CA				
Formal name:	USGS California Water Science	Center			
Monloc Identifier:	USGS-373544121011401				
Monloc name:	004S009E07P001M				
Monloc type:	Well				
Monloc desc:	Not Reported				
Huc code:	18040005	Drainagearea value:	Not F	Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not F	leported	
Contrib drainagearea units	: Not Reported	Latitude:	37.59	54869	
Longitude:	-121.0216003	Sourcemap scale:	Not F	leported	
Horiz Acc measure:	1	Horiz Acc measure unit	is: secor	nds	
Horiz Collection method:	Interpolated from map				
Horiz coord refsys:	NAD83	Vert measure val:	75.00		
Vert measure units:	feet	Vertacc measure val:	5.		
Vert accmeasure units:	teet				
Vertcollection method:	Interpolated from topographic ma	ap Osumbu os stat			
Vert coord refsys:	NGVD29	Countrycode:	05		
Aquifername:	Central valley aquifer system				
Aquifer type.	Not Reported				
Aquiter type.		Walldonth	05		
Welldenth units:	19510101 ft	Wellboledepth:	00 Not E	enorted	
Wellboledepth units:	Not Reported	weinoledeptit.	NULF	leponeu	
	Not hepotted				
Ground-water levels, Numb	per of Measurements: 1				
Feet below	Feet to				
Data Surface	Saalayal				

Date Surface Sealevel

1976-01-01 23.00

Map ID					
Direction					
Flevation				Database	FDR ID Number
0				Balabaoo	
3 NW				FED USGS	USGS40000184033
1/2 - 1 Mile					
Lower					
Ora. Identifier:	USGS-CA				
Formal name:	USGS California Water Science	Center			
Monloc Identifier:	USGS-373609121021301				
Monloc name:	004S008E12G001M				
Monloc type:	Well				
Monloc desc:	Not Reported				
Huc code:	18040005	Drainagearea value:		Not Reported	
Drainagearea Units:	Not Reported	Contrib drainagearea:		Not Reported	
Contrib drainagearea units	Not Reported	Latitude:		37.6024312	
Longitude:	-121.0379897	Sourcemap scale:		24000	
Horiz Acc measure:	1	Horiz Acc measure uni	ts:	seconds	
Horiz Collection method:	Interpolated from map				
Horiz coord refsys:	NAD83	Vert measure val:		75.00	
Vert measure units:	feet	Vertacc measure val:		2.5	
Vert accmeasure units:	feet				
Vertcollection method:	Interpolated from topographic ma	ар			
Vert coord refsys:	NGVD29	Countrycode:		US	
Aquifername:	Central Valley aquifer system				
Formation type:	Not Reported				
Aquifer type:	Not Reported				
Construction date:	19770301	Welldepth:		Not Reported	
Welldepth units:	Not Reported	Wellholedepth:		Not Reported	
Wellholedepth units:	Not Reported				
Ground-water levels, Numb	per of Measurements: 0				
ENE				CA WELLS	20989
1/2 - 1 Mile Higher					
Water System Information:					
Prime Station Code: 50	010010-205	User ID:	PTA		
FRDS Number: 50	010010205	County:	Stanis	laus	
District Number: 10	0	Station Type:	WELL	/AMBNT/MUN/INTAk	(E/SUPPLY
Water Type: W	/ell/Groundwater	Well Status:	Active	Treated	
Source Lat/Long: 3	73600.0 1210100.0	Precision:	>5 - ur	nreliable.	
Source Name: W	/ELL 220 - PLUMAS - TREATED				
System Number: 50	010010				
System Name: N	lodesto, City of				
Organization That Operates	s System:				
P	O BOX 642				
N	IODESTO, CA 95353	<b>_</b>			
Pop Served: 1	80320	Connections:	52219		
Area Served: N	IODESTO				
B5					

B5 ENE 1/2 - 1 Mile Higher

CA WELLS 4959

#### Water System Information:

Prime Station Code:	04S/09E-07R01 M	User ID:	PTA Stanislaus
District Number:	10	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	373600.0 1210100.0	Precision:	Undefined
Source Name:	WELL 220 - PLUMAS		
System Number:	5010010		
System Name:	Modesto, City of		
Organization That Opera	ites System:		
	PO BOX 642		
	MODESTO, CA 95353		
Pop Served:	180320	Connections:	52219
Area Served:	MODESTO		

#### 6 NNW 1/2 - 1 Mile Lower

FED USGS

USGS40000184067

USGS40000184052

Org. Identifier:	USGS-CA						
Formal name:	USGS California Water Science	JSGS California Water Science Center					
Monloc Identifier:	USGS-373627121020501						
Monloc name:	004S008E12B003M						
Monloc type:	Well						
Monloc desc:	Not Reported						
Huc code:	18040005	Drainagearea value:	Not Reported				
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported				
Contrib drainagearea units	: Not Reported	Latitude:	37.6074311				
Longitude:	-121.0357675	Sourcemap scale:	24000				
Horiz Acc measure:	1	Horiz Acc measure units:	seconds				
Horiz Collection method:	Interpolated from map						
Horiz coord refsys:	NAD83	Vert measure val:	68.00				
Vert measure units:	feet	Vertacc measure val:	2.5				
Vert accmeasure units:	feet						
Vertcollection method:	Interpolated from topographic ma	ар					
Vert coord refsys:	NGVD29	Countrycode:	US				
Aquifername:	Central Valley aquifer system						
Formation type:	Not Reported						
Aquifer type:	Not Reported						
Construction date:	19770301	Welldepth:	Not Reported				
Welldepth units:	Not Reported	Wellholedepth:	Not Reported				
Wellholedepth units:	Not Reported						

Ground-water levels, Number of Measurements: 0

#### 7 NW 1/2 - 1 Mile Lower

ower			
Org. Identifier:	USGS-CA		
Formal name:	USGS California Water Science (	Center	
Monloc Identifier:	USGS-373620121022901		
Monloc name:	004S008E12F001M		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	18040005	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	37.6054867
Longitude:	-121.0424343	Sourcemap scale:	24000

FED USGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	67.00
Vert measure units:	feet	Vertacc measure val:	2.5
Vert accmeasure units:	feet		
Vertcollection method:	Interpolated from topographic ma	ар	
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Central Valley aquifer system		
Formation type:	Not Reported		
Aquifer type:	Not Reported		
Construction date:	19770301	Welldepth:	Not Reported
Welldepth units:	Not Reported	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

8 South 1/2 - 1 Mile Lower

> Objectid: Latitude: Longitude: Site code: State well numbe: Local well name: Well use id: Well use descrip: County id: County name: Basin code: Basin desc: Dwr region id: Dwr region: Site id:

19478 37.5807 -121.0293 375807N1210293W001 04S09E18N001M " 6 Unknown 50 Stanislaus '5-22.03' Turlock 80237 South Central Region Office CADW60000019478 CA WELLS CADW60000019478

## AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	>4 pCi/L
95358	3	0

Federal EPA Radon Zone for STANISLAUS County: 3

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 STANISLAUS COUNTY, CA

Number of sites tested: 12

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.725 pCi/L	92%	8%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.250 pCi/L	100%	0%	0%

### **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, available in select counties across the country, was obtained by EDR in 2003 & 2011 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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 & Game

Telephone: 916-445-0411

### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> 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.

### RADON

State Database: CA Radon Source: Department of Health Services Telephone: 916-324-2208 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.

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.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

### 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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APPENDIX H

**Other Reports** 



PAGE	1061 H	IAZARDOUS SUBS	STATE WATER TANCE STORAGE CONTAIN	RESOURCES CONTRONER INFORMATION FO	DL BOARD DR STANISLAUS COUNTY	06/01/88
	(1=FARM MOTOR VEHIC	LE FUEL TANKS	, Z=ALL OTHER PRODUCT	TANKS, S=WASTE	TANKS, 4=SUMPS, 5=PITS, PONDS	, LAGOONS & OTHERS)
Ţ	OWNER EDWARD M. VARGAS 2625 SOUTH CARPENTER	RROAD	MODESTO	CA 9	5351	
II	FACILITY EDWARD M. VARGAS		MAILING ADDRESS TOWNSHIP/RANGE/SE	ECTION	DEALER/FOREMAN/SUPERVISOR TELEPHONE	TYPE OF BUSINESS NO, OF CONTAINERS
	MODESTO	CA 95351	2625 SOUTH CARPEN	NTER ROAD CA 95351		RESIDENCE
	CROSS STREET :		T45 /R85 /S 13		(209) 537-3869	1
III	24-HR. CONTACT PERSO DAY: VARGAS, EDWAR	ON / TELEPHOHE RD	(209) 537-3869	9 NIGHT: SAME		( ) -
****	***** OWNER ASSIGNED	CONTAINER NU	MBER: 1 ****	****** STATE BOA	RD ASSIGNED CONTAINER ID NUMB	ER: 0000044923001 ********
IY	DESCRIPTION A. CONTAINER TYPE B. MANUFACTURER/YR O C. YEAR INSTALLED D. CAPACITY (GALLONS	: TANK DF MFG: : 1974	350	E. REP F. CUR G. STO H. MOT	AIRS : NONE IF YES RENTLY USED : YES IF NO, YEA RES : PRODUCT OR VEHICLE FUEL/WASTE OIL : Y	WHEN : R OF LAST USE: ES CONTAINS: REGULAR
IS	CONTAINER LOCATED ON	A FARM : YES			······································	
<b>V</b>	CONTAINER CONSTRUCTI A. THICKNESS: 12 D. MATERIAL : CARBON E. LINING : UNLINE F. WRAPPING : CATHOD	ION GAUGE B N STEEL ED DIC	. VAULTING: NON-VAULT	TED C. WALLING:	······	·····
VI	PIPING A. ABOVEGROUND PIPIN C. REPAIRS : NONE	NG : IF YES, YEAR	OF MOST RECENT REPAI	B. UNDERGROUND P	IPING : SUCTION	
VII	LEAK DETECTION PRESSURE TEST			· · · · · · · · · · · · · · · · · · ·	······································	
URE	TEST COMPOSITIO	ON OF SUBSTANC GULAR MOTOR VE	ES CURRENTLY STORED I	IN CONTAINER		
	<b>an finis i</b> anno 1997 an		• • • • • • • • • • • • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	
ـ د ها وهو مد ـ بي	ann a chuirean ann a chuir chuirean an chuir chuir a chuir chuirean ann ann ann ann ann ann ann ann ann	48				
	analahan mara - ana a ay a a a ana ana a ana a ana a ana a a a					*···
	مری در باری در باری میشوند. باری این این این این این این این این این ای		nga kanan kaka kaka kaka kaka kaka kaka		a an an an an an ann ann ann an ann an a	

\*\*\* KO2 \*\*\*

ie <del>- 1996, 99<b>0</b>, 199</del> 7, 1987	والمحمد والمحمد والمحمد والمحمد والمحمد والمحمد والمحمود والمحمود والمحمود والمحمود والمحمو والمحمو والمحموس	والمراجعة المالة في مسيد من التقريبية المتوجعات الإجاب معالة الوجب المالة ال		وجر بالقالي وحدسه بالهار حارمك كالبرجو الفاقات ويستركبنا الكووبات بحك وتوارين بالتكلي ويزرك بالتقرير	مىسىمى بى مىچىمى بىرى يېچىنى بىرى بىكى يىرى بىكى يېچىنى بىرى يېچىنى چى بىر كىزى يېچىنى بىرى بىرى بىرى بىرى بىرى يېچىنى يېچى بىرى يېچىنى بىرى يېچىنى بىرى بىرى بىرى بىرى بىرى بىرى بىرى ب
PAGE	1153 HAZARDOUS S	STATE W SUBSTANCE STORAGE CON	ATER RESOURCES CON	TROL BOARD FOR STANISLAUS COUNTY	06/01/8
	(1=FARM MOTOR VEHICLE FUEL TA	NKS, Z=ALL OTHER PRO	DUCT TANKS, 3=WAST	E TANKS, 4=SUMPS, 5=PITS, POND	S, LAGOONS & OTHERS)
Ţ	OWNER EUGENE D. HOAGLUND 2642 SO. CARPENTER RD.	MODESTO	CA	95351	••••••••••••••••••••••••••••••••••••••
II	FACILITY		·····		
	EUGENE D. HOAGLUND	TOWNSHIP/RANG	E/SECTION	TELEPHONE	NO. OF CONTAINERS
	MODESTO CA 9535	51 2642 SO. CARP MODESTO	PENTER RD. CA 95351		FARM
	CROSS STREET : WHITEGORE ST.			(707) 938-8312	4
III	24-HR. CONTACT PERSON / TELEPH DAY: HOAGLUND, EUGENE	IONE (707) 938-	-8312 NIGHT: SA	ME	( ) -
****	****** OWNER ASSIGNED CONTAINER	R NUMBER: #1	***** STATE B	OARD ASSIGNED CONTAINER ID NUM	BER: 00000043555001 ********
IV	DESCRIPTION A. CONTAINER TYPE : TAN B. MANUFACTURER/YR OF MFG: MOD	WK DESTO TANK	E.R / F.C	EPAIRS : NONE IF YE	S WHEN : Ar of last use:
	C. YEAR INSTALLED : UNK D. CAPACITY (GALLONS) :	500	G_ S H. M	TORES : PRODUCT OTOR VEHICLE FUEL/WASTE OIL : Y	TES CONTAINS: DIESEL
V	CONTAINER CONSTRUCTION A. THICKNESS: D. MATERIAL : CARBON STEEL E. LINING : UNLINED F. WRAPPING : UNKNOWN	B. VAULTING: NON-V	AULTED C. WALLIN	G: NONE	
VI	PIPING A. ABOVEGROUND PIPING : UNKNOW C. REPAIRS : NONE IF YES, Y	N YEAR OF MOST RECENT R	B. UNDERGROUND	PIPING :	
VII	LEAK DETECTION VISUAL				
URE	TEST COMPOSITION OF SUBST 12034 DIESEL MOTOR	TANCES CURRENTLY STOP VEHICLE FUEL	RED IN CONTAINER		an a
ala ann a herroradorado	стан, жийн хүшинж жий тэрцэлсэн му у гаш жирэх ул хэхээ тэсэрүйн ур цэгжээ хийн гуун тэмэр. Үнээх ул алаг нээн	<b>9 'B BAR 448 AU</b> BAR 44 AU BAR 44 AU	n ang an 2 - Charles and an	ng, ng 28 g +	ан на с <b>ад ще сво д</b> уж слад чада с бърга на так, во ба жите п <b>д</b> ужени и ст. т. с 6 6 6 6 - тор от 6 8 9 - т. с
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PAGE	1154	STATE WATER RESOURCES CONTROL BOARD HAZARDON'S SUBSTANCE STORAGE CONTAINER INFORMATION FOR STANISLAUS COUNTY	06/01/88
	(1=FARM	M MOTOR VEHICLE FUEL TANKS, Z=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGO	XONS & OTHERS)
****	***** 0	WINER ASSIGNED CONTAINER NUMBER: #2 ******* STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0	2000043555002 ********
IV	DESCRIPT A. CONTA B. MANUF C. YEAR D. CAPAC	TION AINER TYPE : TANK E. REPAIRS : NONE IF YES WHEN IFACTURER/YR OF MFG: MODESTO TANK / F. CURRENTLY USED : YES IF NO, YEAR OF INSTALLED : UNK G. STORES : PRODUCT ACITY (GALLONS) : 500 H. MOTOR VEHICLE FUEL/WASTE OIL : YES CO	LAST USE: NTAINS: DIESEL
IS	CONTAINER	R LOCATED ON A FARM : YES	
V	CONTAINE A. THICK D. MATER E. LININ F. WRAPP	NER CONSTRUCTION KNESS: B. VAULTING: NON-VAULTED C. WALLING: NONE RIAL : CARBON STEEL NG : OTHER PING : UNKNOWN	,
VI	PIPING A. ADOVE C. REPAI	/EGROUND PIPING : UNKNOWN B. UNDERGKOUND PIPING : NRS : NONE IF YES, YEAR OF MOST RECENT REPAIR;	
VII		TECTION	ρ
URE	TEST 12034	COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER DIESEL MOTOR VEHICLE FUEL	, , , , , , , , , , , , , , , , , , ,
****	waaaa oo	WINER ASSIGNED CONTAINER NUMBER: #3 ******** STATE BOARD ASSIGNED CONTAINER ID NUMBER: 0	00000435550()3 ********
IV	DESCRIPT A. CONTA B. MANUF	TION AINER TYPE : TANK E. REPAIRS : NONE IF YES WHEN FACTURER/YR OF MFG: MODESTO TANK / F. CURRENTLY USED : YES IF NO, YEAR OF I	LAST USE;
	D. CAPAC	ACITY (GALLONS) : 250 H. MOTOR VEHICLE FUEL/WASTE OIL : YES CO	NTAINS: DIESEL
IS	CONTAINER	R LOCATED ON A TARM : YES	annan gangan kalan dan ang palakan kana kana kana kana kana kana kan
. <u>v</u>	CONTAINE A. THICK D. MATER E. LININ F. WRAPP	NER CONSTRUCTION KNESS: B. VAULTING: NON-VAULTED C. WALLING: NONE RIAL : CARBON STEEL ING : OTHER PING : UNKNOWN	
VI	PIPING		
	A. ABOVE C. REPAI	/EGROUND PIPING : UNKNOWN B. UNDERGROUND PIPING : NIRS : NONE IF YES, YEAR OF MOST RECENT REPAIR:	
VII	LEAK DET VI SUAL	TECTION	P
URE	TEST 12034	COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER DIESEL MOTOR VEHICLE FUEL	
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06/01/88 PAGE 1155 STATE WATER RESOURCES CONTROL BOARD HAZARDOUS SUBSTANCE STORAGE CONTAINER INFORMATION FOR STANISLAUS COUNTY CONTAINER TYPES: 1,2,3,4,5 (1=FARM MOTOR VEHICLE FUEL TANKS, 2=ALL OTHER PRODUCT TANKS, 3=WASTE TANKS, 4=SUMPS, 5=PITS, PONDS, LAGOONS & OTHERS) \*\*\*\*\*\*\* STATE BOARD ASSIGNED CONTAINER ID NUMBER: 00000043555004 \*\*\*\*\*\*\* \*\*\*\*\*\*\*\* OWNER ASSIGNED CONTAINER NUMBER: #4 IV DESCRIPTION ; TANK E. REPAIRS ; NONE IF YES WHEN : A. CONTAINER TYPE F. CURRENTLY USED : YES IF NO, YEAR OF LAST USE: B. MANUFACTURER/YR OF MFG: MODESTO TANK 1 G. STORES : PRODUCT C. YEAR INSTALLED : UNK H. MOTOR VEHICLE FUEL/WASTE OIL : YES CONTAINS: DIESEL D. CAPACITY (GALLONS) 750 : IS CONTAINER LOCATED ON A FARM : YES **V CONTAINER CONSTRUCTION** A. THICKNESS: B. VAULTING: NON-VAULTED C. WALLING: NONE D. MATERIAL : CARBON STEEL E. LINING : UNKNOWN F. WRAPPING : UNKNOWN VI PIPING A. ABOVEGROUND PIPING : UNKNOWN B. UNDERGROUND PIPING : IF YES, YEAR OF MOST RECENT REPAIR: C. REPAIRS : NONE VII LEAK DETECTION P VIŞUAL URE TEST COMPOSITION OF SUBSTANCES CURRENTLY STORED IN CONTAINER 12034 DIESEL MOTOR VEHICLE FUEL . .