CITY OF MANTECA
DEVELOPMENT SERVICES DEPARTMENT

# Yosemite Square Subdivision Project

## INITIAL STUDY/MITIGATED NEGATIVE DECLARATION

**July 2022**

RANEY PLANNING & MANAGEMENT, INC.
20 years
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Appendix G: Transportation Evaluation Memorandum

# INITIAL STUDY
# JULY 2022

## A. PROJECT SUMMARY

| | | |
|---|---|---|
| 1. | Project Title: | Yosemite Square Subdivision Project |
| 2. | Lead Agency Name and Address: | City of Manteca<br>Development Services Department<br>1215 West Center Street, Suite 201<br>Manteca, CA 95337 |
| 3. | Contact Person and Phone Number: | Lea Simvoulakis<br>Planning Manager<br>(209) 456-8516 |
| 4. | Project Location: | 1992 East Yosemite Avenue;<br>719, 791, and 1071 South Austin Road<br>Manteca, CA 95337<br>APNs: 228-020-32, -33, -37, and -40 |
| 5. | Project Sponsor's Name and Address: | Kevin Fryer, Project Manager<br>Integral Communities<br>500 La Gonda Way, Suite 102<br>Danville, CA 94526 |
| 6. | Existing Land Use Designations: | Low Density Residential (LDR)<br>Medium-Density Residential (MDR)<br>High-Density Residential (HDR)<br>Business Industrial Park (BIP)<br>Park (P) |
| 7. | Proposed Land Use Designations: | Low Density Residential (LDR)<br>Medium-Density Residential (MDR)<br>Park (P) |
| 8. | Zoning Designation: | Master Plan (MP) |
| 9. | Required Approvals from Other Public Agencies: | N/A |

10. Surrounding Land Uses and Setting:

The project site is located at 1992 East Yosemite Avenue, 719 South Austin Road, 791 South Austin Road and 1071 South Austin Road, in the eastern portion of the City of Manteca, California. Surrounding land uses include industrial buildings to the west (across State Route [SR] 99); commercial businesses to the northwest; Austin Road, scattered single-family residences, and agricultural land to the east; a mobile home park and a trucking facility to the north; and agricultural land to the south. The 137.2-acre project site

(Assessor's Parcel Numbers [APNs] 228-020-32, -33, -37, 40) is comprised entirely of agricultural land, and currently consists of an almond orchard. The City of Manteca General Plan designates the site as Low-Density Residential (LDR), Medium-Density Residential (MDR), High-Density Residential (HDR), Business Industrial Park (BIP), and Park (P). The project site is zoned Master Plan (MP).

11. Project Description Summary:

    The Yosemite Square Subdivision Project (proposed project) would subdivide the four existing parcels of the project site into a total of 814 single-family residential lots. The proposed project would also include the development of approximately 7.7 acres of parks and recreational facilities, public and private streets, a pedestrian sidewalk system, stormwater retention features, and the construction of required on- and off-site street and utility connections to serve the project site and surrounding areas. The proposed project would require the approval of a General Plan Amendment to designate the site as LDR, MDR, and P, Master Plan Amendment, and Tentative Subdivision Map.

12. Status of Native American Consultation Pursuant to Public Resources Code Section 21080.3.1:

    In compliance with Assembly Bill (AB) 52 (Public Resources Code [PRC] Section 21080.3.1), on May 31, 2022 the City provided formal notification letters to Buena Vista Rancheria of Me-Wuk Indians, Ione Band of Miwok Indians, Muwekma Oholone Indian Tribe of the SF Bay Area, North Valley Yokuts Tribe, Tule River Indian Tribe, Wilton Rancheria, Wuksache Indian Tribe/Eshom Valley Band, and the Confederated Villages of Lisjan Nation. Responses were received from the North Valley Yokuts Tribe and the Confederated Villages of Lisjan Nation requesting consultation. Based on conversations between the City and the aforementioned tribes, consultation was closed in June 2022.

## B. SOURCES

The following documents are referenced information sources used for the purposes of this Initial Study/Mitigated Negative Declaration (IS/MND):

1. California Air Resources Board. *Mobile Source Emissions Inventory.* Available at https://arb.ca.gov/emfac/emissions-inventory. Accessed March 2022.
2. California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.
3. California Department of Conservation. *California Important Farmland Finder.* Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed September 2021.
4. California Department of Forestry and Fire Protection. *Fire Hazard Severity Zone Viewer*. Available at: https://egis.fire.ca.gov/FHSZ/. Accessed September 2021.
5. California Department of Transportation. *List of eligible and officially designated State Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed September 2021.
6. California Energy Commission. *Title 24 2019 Building Energy Efficiency Standards FAQ*. November 2018.
7. CalRecycle. *SWIS Facility/Site Activity Details: Forward Landfill, Inc. (39-AA-0015)*. Available at:

https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1434?siteID=3106. Accessed March 2021.
8. Caltrans. *Traffic Volumes: Annual Average Daily Traffic (AADT) 2019.* Available at: https://dot.ca.gov/programs/traffic-operations/census. Accessed April 2022.
9. Central California Information Center. *Records Search File#: 11891L, Project: Yosemite Square Subdivision.* September 9, 2021.
10. City of Manteca Department of Public Works. *City of Manteca 2012 Wastewater Collection System Master Plan Update.* January 2013.
11. City of Manteca. *City of Manteca 2015 Urban Water Management Plan*. July 2016.
12. City of Manteca. *City of Manteca Active Transportation Plan – Figure 15: Planned Bicycle Networks*. August 2020.
13. City of Manteca. *City of Manteca Active Transportation Plan*. August 2020.
14. City of Manteca. *General Plan Existing Conditions Report: 3.0 Utilities and Community Services*. October 2017.
15. City of Manteca. *Manteca General Plan 2023 Environmental Impact Report (SCH# 2002042088)*. October 6, 2003.
16. Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese).* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed September 2021.
17. ENGEO Incorporated. *Preliminary Geotechnical Exploration*. May 6, 2021.
18. Fehr & Peers. *Transportation Evaluation of Proposed Rezone of Yosemite Square Master Plan.* July 7, 2022.
19. FEMA. *FEMA Flood Map Service Center.* Available at: https://msc.fema.gov/portal/home. Accessed April 2022.
20. Geocon Consultants, Inc. *Phase I and Limited Phase II Environmental Site Assessment*. November 2018.
21. Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.
22. Helix Environmental Planning, Inc. *Yosemite Square Project Biological Resources Evaluation*. April 2021.
23. Native American Heritage Commission. *Re: Native American Consultation, Pursuant to Senate Bill 18, Government Code §65352.3 and §65352.4, Yosemite Square Subdivision Project, San Joaquin County.* October 20, 2021.
24. Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments*. February 2015.
25. San Joaquin County. *County of San Joaquin Emergency Operations Plan*. April 23, 2019.
26. San Joaquin Valley Air Pollution Control District. *Air Quality Thresholds of Significance – Toxic Air Contaminants*. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-TACs-Thresholds-of-Significance.pdf. Accessed April 2022.
27. San Joaquin Valley Air Pollution Control District. *Guidance for Air Dispersion Modeling*. August 2006.
28. San Joaquin Valley Air Pollution Control District. *Small Project Analysis Levels (SPAL)*. November 13, 2020.
29. Saxelby Acoustics LLC. *Environmental Noise Assessment Yosemite Square Residential*. March 14, 2022.
30. Saxelby Acoustics LLC. *Yosemite Square Residential Alternative Site Plan*. May 2, 2022.
31. U.S. Census Bureau. *QuickFacts: Manteca city, California.* Available at: https://www.census.gov/quickfacts/fact/table/mantecacitycalifornia,US/PST045219. Accessed September 2021.

32. U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.
33. Weather Spark. *Average Weather in Manteca California, United States*. Available at: https://weatherspark.com/y/1086/Average-Weather-in-Manteca-California-United-States-Year-Round. Accessed April 2022.
34. West Yost. *Yosemite Square Water Supply Assessment.* April 2022.

## C. BACKGROUND AND INTRODUCTION

This IS/MND identifies and analyzes the potential environmental impacts of the proposed project. The information and analysis presented in this document is organized in accordance with the order of the California Environmental Quality Act (CEQA) checklist in Appendix G of the CEQA Guidelines. Where the analysis provided in this document identifies potentially significant environmental effects of the project, mitigation measures are prescribed. The mitigation measures prescribed for environmental effects described in this IS/MND would be implemented in conjunction with the proposed project, as required by CEQA. The mitigation measures would be incorporated into the project through conditions of approval. The City would adopt findings and a Mitigation Monitoring and Reporting Program (MMRP) for the project in conjunction with approval of the project.

In October 2003, the City of Manteca approved the City of Manteca 2023 General Plan and certified an associated Environmental Impact Report (EIR) for the General Plan. The General Plan EIR is a program EIR, prepared pursuant to Section 15168 of the CEQA Guidelines (Title 14, California Code of Regulations, Sections 15000 *et seq*.). The General Plan EIR analyzed full implementation of the General Plan and identified measures to mitigate the significant adverse impacts associated with the General Plan. Consistent with Section 15150 of the CEQA Guidelines, applicable portions of the General Plan and General Plan EIR are incorporated by reference as part of this IS/MND. It should be noted that the General Plan is currently being updated and an EIR has been prepared, but not certified. Therefore, the 2023 General Plan is the guiding policy document. In preparation for the General Plan Update, an Existing Conditions Report was prepared (October 2017). The existing conditions in this IS/MND are based upon this 2017 Existing Conditions Report, as applicable.

## D. PROJECT DESCRIPTION

The following provides a description of the project site location and setting, as well as the project components and the discretionary actions required for the proposed project.

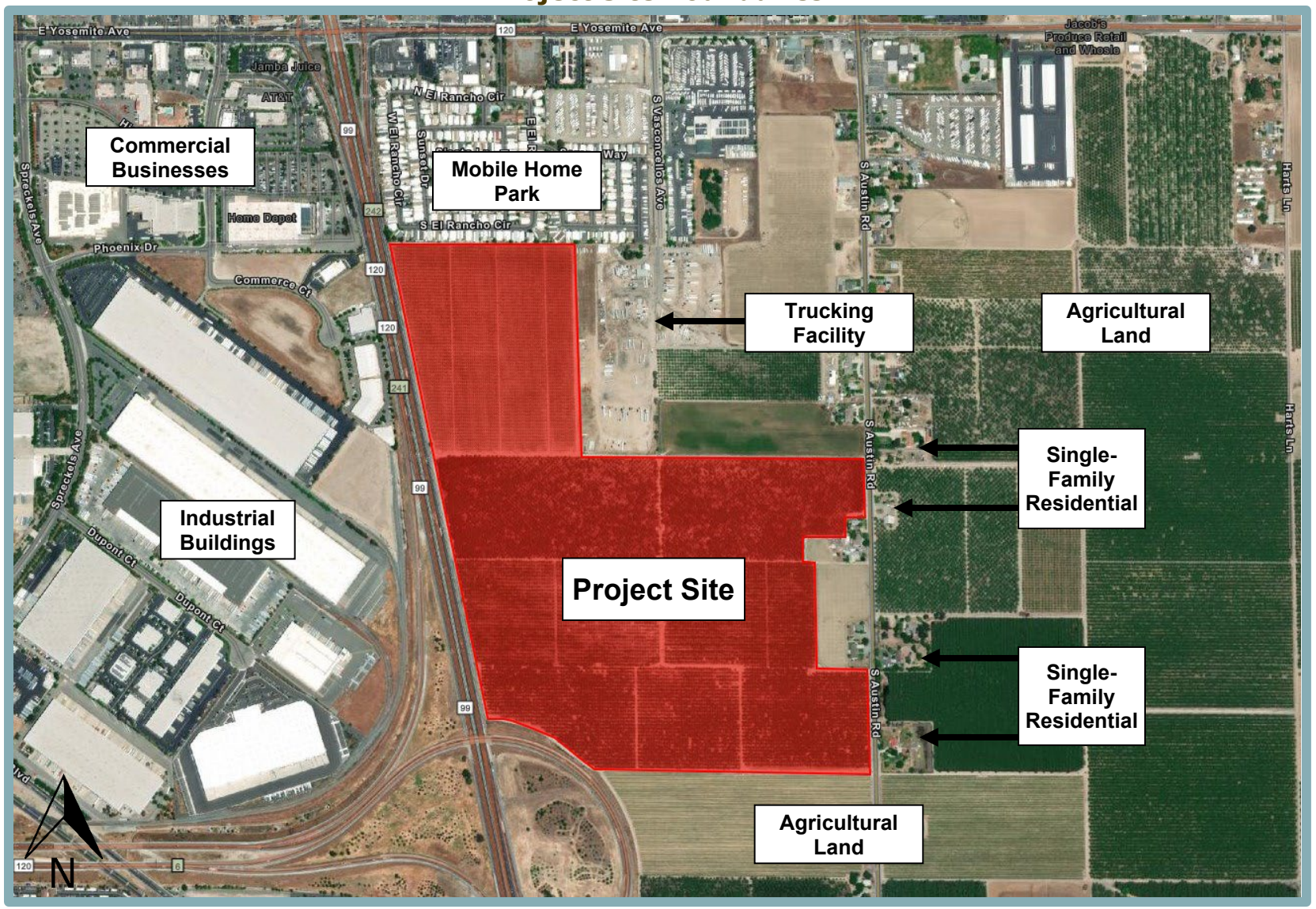
### Project Location and Setting

The project site is located at 1992 East Yosemite Avenue, 719 South Austin Road, 791 South Austin Road and 1071 South Austin Road, in the eastern portion of the City of Manteca, California (see Figure 1). The project site is approximately 137.2 acres in size, and is identified by APNs 228-020-32, -33, -37, and -40. Per the City's General Plan, the project site is designated LDR, MDR, HDR, BIP, and P; and the site is zoned MP.

Currently, the project site is in use as agricultural land and is comprised entirely of an almond orchard consisting of mature and immature trees. Surrounding land uses include industrial buildings to the west (across SR 99); commercial businesses to the northwest; Austin Road, scattered single-family residences, and agricultural land to the east; a mobile home park and a trucking facility to the north; and agricultural land to the south (see Figure 2).

**Figure 1**
**Regional Project Location**

## Figure 2
## Project Site Boundaries




***Project Site Boundaries are approximate***

## Project Components

The proposed project would include the subdivision of the project site into a total of 814 single-family residential lots. The average density of the proposed residential development would be between 5.2 and 8.7 dwelling units per acre (see Figure 3). The proposed project would also include the development of approximately 7.7 acres of parks and recreational facilities, public and private streets, a pedestrian sidewalk system, stormwater retention features, and the construction of required on- and off-site street and utility connections to serve the project site and surrounding areas, as discussed in further detail below.

## Utilities

The construction of on- and off-site infrastructure improvements would be required to accommodate development of the proposed project. The project site would be served by a new potable water distribution system as well as a new wastewater distribution system.

The proposed project would connect to the City of Manteca water system at the northern and southern boundaries of the project site (see Figure 4). Development of the proposed potable water system would include construction of a 12-inch water main along Austin Road and along the internal roadway network of the site. Additionally, an internally looped system of water lines would be installed within the project site. A potable well site would be located within the subdivision, adjacent to the internal roadway network.

The proposed project would also include the development of an on-site non-potable water distribution system that would provide irrigation water to the proposed parks, open space, and landscaped areas.

The proposed wastewater conveyance facilities would require construction of a regional sewer pump station along Austin Road adjacent to the southern project entrance (see Figure 5 and Figure 6). Discharge from the regional sewer pump station would be conveyed by a force main located south of the project site along Austin Road for 3,000 linear feet to an existing 8-inch force main which extends under SR 99 to the intersection of Woodward Avenue and Moffatt Boulevard. The existing force main would be extended to the west for an additional 1,400 linear feet along Woodward Avenue to connect an existing 15-inch sewer stub that is part of the City of Manteca collection and treatment system.

A new storm drainage system, including a drainage collection system, storm drain pump stations, and a detention basin would be constructed as part of the proposed project. It should be noted that the location of the proposed detention basin is conceptual and will be finalized during the design of Improvement Plans. The proposed on-site storm drainage pump station and force main would extend within the internal roadway network of the project site, and would connect to a proposed storm drainage system along Austin Road. Storm drain lines would be constructed along the entire Austin Road project frontage, and would extend south of the project frontage along Austin Road for approximately 2,000 linear feet.

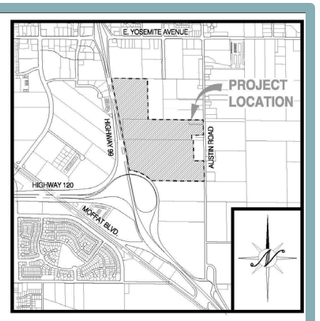
Electrical, gas, phone, cable and related internet services would be extended to all portions of the project site from existing facilities located along Austin Road adjacent to the project site. Proposed utilities would be located within public utility easements to be dedicated along street frontages. Utility improvements would be installed in conjunction with planned street improvements. All utility improvements would be constructed in accordance with the design standards specified by the City's Municipal Code.

**Figure 3**
**Tentative Subdivison Map**

TENTATIVE SUBDIVISION MAP

# YOSEMITE SQUARE SUBDIVISION

MANTECA, CALIFORNIA




200 100 0 200
1" = 200'

## LAND USE BREAKDOWN

| UNITS | PRODUCT | SIZE | DENSITY | DESIGNATION |
|---|---|---|---|---|
| 226 | 40' X 70' | 25.2 AC. | 8.7 D.U./AC. | MDR |
| 231 | 46' X 75' | 28.3 AC. | 8.2 D.U./AC. | MDR |
| 250 | 50' X 80' | 37.0 AC. | 6.8 D.U./AC. | LDR |
| 63 | 55' X 90' | 10.7 AC. | 5.9 D.U./AC. | LDR |
| 50 | 50' X 105' | 9.6 AC. | 5.2 D.U./AC. | LDR |
| - | PARK AREA | 7.7 AC. | - | P/OS |
| - | DOMESTIC WELL | 0.5 AC | - | - |
| - | BACKBONE ROADS/ CALTRANS DEDICATIONS | 18.6 AC | - | - |

## GENERAL NOTES

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED AS PER THE CITY OF MANTECA STANDARD PLANS AND SPECIFICATIONS EXCEPT AS NOTED.
2. STORM DRAINAGE TO BE CONVEYED TO AN ON-SITE STORM DRAIN BASIN AND STORM DRAINAGE METERING STATION WHICH WILL DISCHARGE TO CITY OF MANTECA STORM DRAINAGE SYSTEM, SEE TM4.1. ALL IMPROVEMENTS TO BE CONSTRUCTED TO THE CITY OF MANTECA STANDARDS.
3. ALL STORM DRAINAGE IMPROVEMENTS AS PART OF FUTURE IMPROVEMENTS PLANS AND STUDIES SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT 2013-0001-DWQ.
4. SANITARY SEWER TO BE CONSTRUCTED TO THE CITY OF MANTECA STANDARDS AND SPECIFICATIONS. SEE TM4.1 FOR OFFSITE INFRASTRUCTURE.
5. WATER SYSTEM TO BE CONSTRUCTED TO THE CITY OF MANTECA STANDARDS AND SPECIFICATIONS. SEE TM4.1 FOR OFFSITE INFRASTRUCTURE.
6. STREET LIGHTING SHALL BE INSTALLED PER CITY OF MANTECA STANDARD SPECIFICATIONS.
7. PUBLIC UTILITIES ARE TO BE INSTALLED UNDER GROUND IN EASEMENTS.
8. THE SUBDIVIDER HEREBY RESERVES THE RIGHT TO FILE 'MULTIPLE SUBDIVISION MAPS' AS SET FORTH BY THE SUBDIVISION MAP ACT, ARTICLE 4, SECTION 66456.1, AND FILE PARCEL MAPS FOR REASON OF SALE. ALL PARCEL LINES SHALL CONFORM TO THIS TENTATIVE MAP.
9. PUBLIC UTILITY EASEMENTS WILL BE PROVIDED ALONG ALL STREET IN-TRACT FRONTAGES.
10. ALL EXISTING STRUCTURES AND TREES ARE TO BE REMOVED UNLESS OTHERWISE NOTED, SEPTIC TANKS, LEACH FIELDS, AND WELLS ON SITE WILL BE REMOVED OR ABANDONED AS PER CITY OF MANTECA REQUIREMENTS.
11. APPLICANT SHALL PROVIDE ACCESS AGREEMENT IN PERPETUITY FOR CITY TO INSPECT ALL POST-CONSTUCTION BMP'S.
12. ALL LOT SETBACK REQUIREMENTS AND LOT SIZES ARE TO BE IN ACCORDANCE WITH CITY OF MANTECA MUNICIPAL CODE 17.26.020, TABLE 17.26.020-1 FOR NEIGHBORHOODS WITH LOTS OVER 6,000 S.F., AND TABLE 17-26-020-2 FOR NEIGHBORHOODS WITH LOTS UNDER 6,000 S.F.

## LEGAL DESCRIPTION

PARCEL 1: 228-020-40
THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4 OF SECTION 3, TOWNSHIP 2 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL 2: 228-020-32
THE NORTH 1/2 OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 3, TOWNSHIP 2 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL 3: 228-020-33
PARCEL 1 AS SHOWN ON THAT CERTAIN PARCEL MAP RECORDED APRIL 23, 1993 IN BOOK 19 OF PARCEL MAPS, PAGE 21, SAN JOAQUIN COUNTY RECORDS.

PARCEL 4: 228-020-37
THE SOUTH 1/2 OF THE NORTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 3, TOWNSHIP 2 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

PARCEL 5: 228-020-37
THE NORTH 1/2 OF THE SOUTH 1/2 OF THE SOUTHEAST 1/4 OF SECTION 3, TOWNSHIP 2 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN.

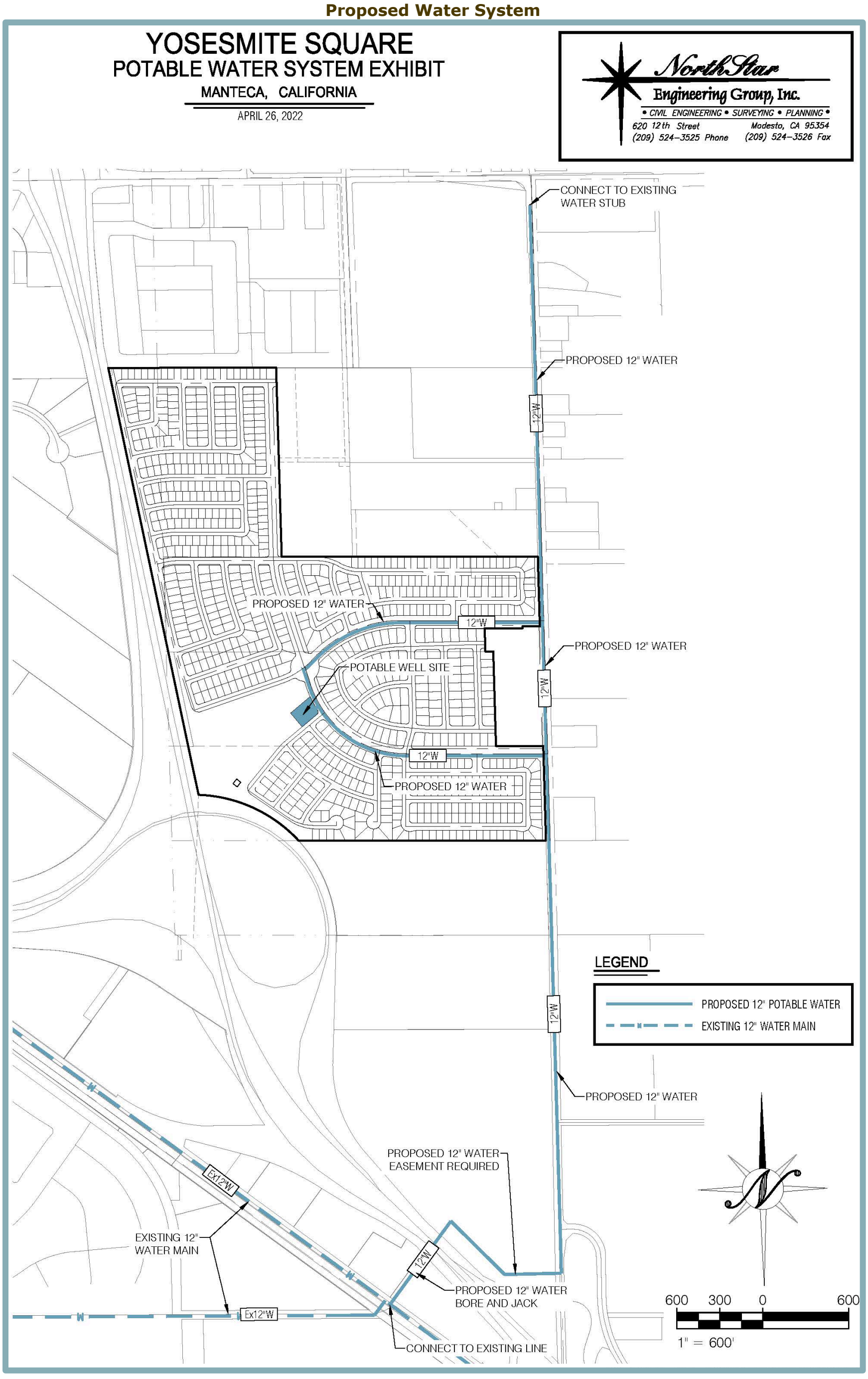
## SHEET INDEX


1. TM1.1 COVER SHEET
2. TM1.2 STREET CROSS SECTIONS
3. TM2.1 DIMENSION AND TOPOGRAPHIC PLAN
4. TM2.2 DIMENSION AND TOPOGRAPHIC PLAN
5. TM3.1 UTILITY PLAN
6. TM3.2 UTILITY PLAN
7. TM3.3 BASIN SHEET
8. TM4.1 OFF-SITE INFRASTRUCTURE PLAN
9. TM5.1 PHASING AND LAND USE PLAN


## PROJECT INFORMATION

| | |
|---|---|
| A. REGULATORY AGENCY: | CITY OF MANTECA<br>1001 W CENTER STREET<br>MANTECA, CA 95337<br>T: (209) 456-8000<br>CONTACT: LEA SIMVOULAKIS |
| B. APPLICANT: | INTEGRAL COMMUNITIES, LLC<br>888 SAN CLEMENTE, SUITE 100<br>NEWPORT BEACH, CA. 92660<br>T: (925) 899-5065<br>CONTACT: KEVIN FRYER |
| C. ENGINEER: | NORTHSTAR ENGINEERING GROUP, INC<br>609 12th STREET<br>MODESTO CA, 95354<br>T: (209) 524-3525<br>CONTACT: TONY DE MELO, P.E. |
| D. ASSESSORS PARCEL NUMBERS: | 228-020-32, 33, 37, & 40 |
| E. EXISTING LAND USE: | HOME SITE, ROW CROPS, AND ORCHARD |
| F. PROPOSED LAND USE: | RESIDENTIAL |
| G. EXISTING ZONING / GP: | MP / LDR, MDR, HDR, BIP |
| H. PROPOSED ZONING / GP: | MP / LDR, MDR |
| I. TOTAL PROJECT SIZE: | 137.5± ACRES |
| J. NET ACREAGE: | 110.8± ACRES (AFTER DEDICATION OF PARK, WELL, CALTRANS & BACKBONE ROADS) |
| K. TOTAL NUMBER OF LOTS: | 814 |
| N. MAXIMUM FOOTPRINT COVERAGE: | 60% |
| O. PARKING: | MINIMUM TWO CAR GARAGE, AND TWO DRIVEWAY SPACES PER LOT |
| P. SETBACKS: | RESIDENTIAL SETBACKS TO BE PER CITY OF MANTECA MUNICIPAL CODE TABLE 17.26.020-02, SMALL LOT SINGLE-FAMILY DEVELOPMENT STANDARDS |
| Q. CONTOURS: | 1.0-FOOT INTERVALS |
| R. RETURNS: | PER CITY OF MANTECA STANDARDS |
| S. UTILITIES: | WATER SYSTEM - CITY OF MANTECA<br>SANITARY SEWER - CITY OF MANTECA<br>STORM DRAINAGE - CITY OF MANTECA<br>GAS - PG&E<br>ELECTRIC - PG&E<br>TELEPHONE - AT&T<br>SCHOOL DISTRICT - MANTECA UNIFIED |

**Figure 4**
**Proposed Water System**



## Figure 5
## Utility Plan Sheet One

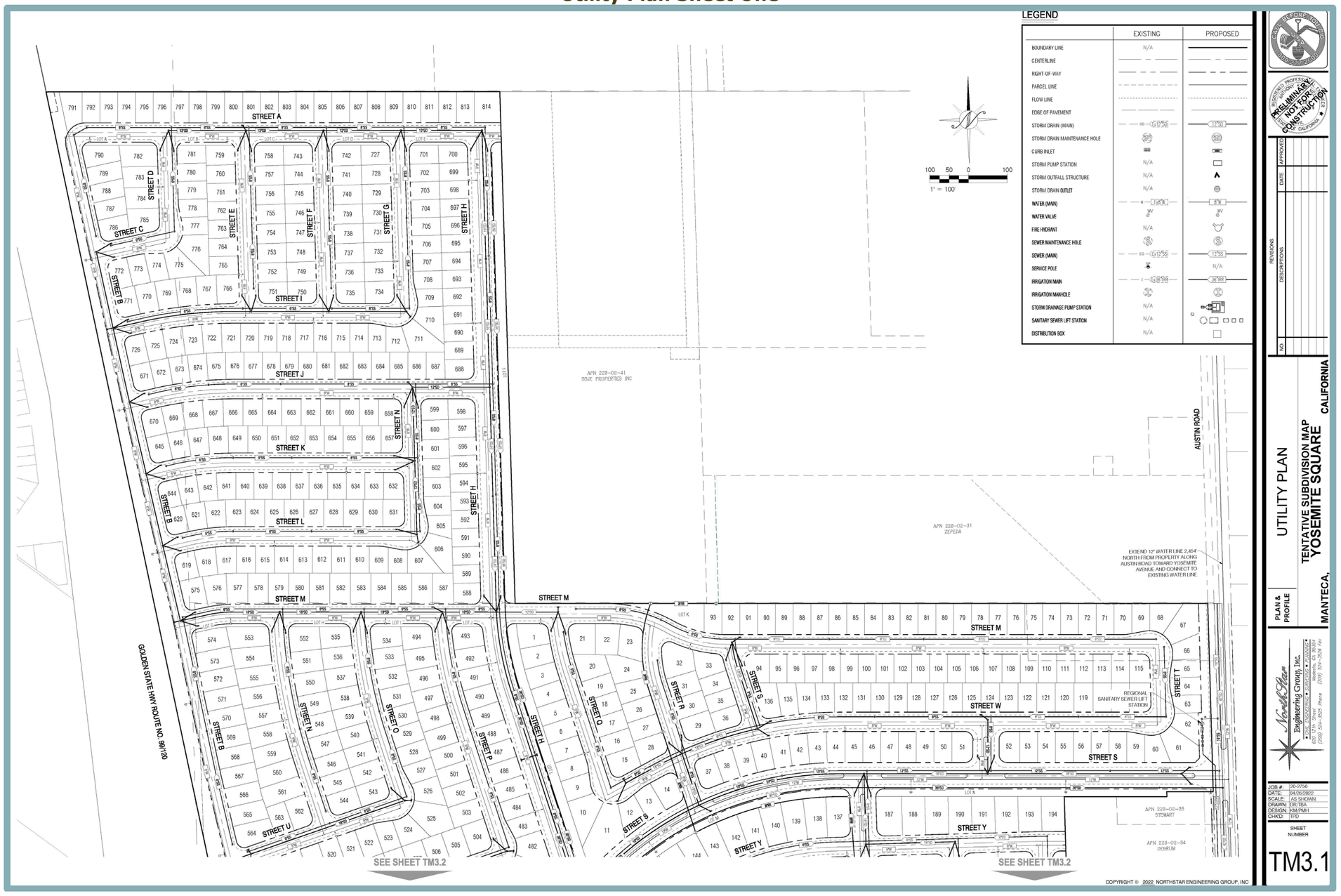
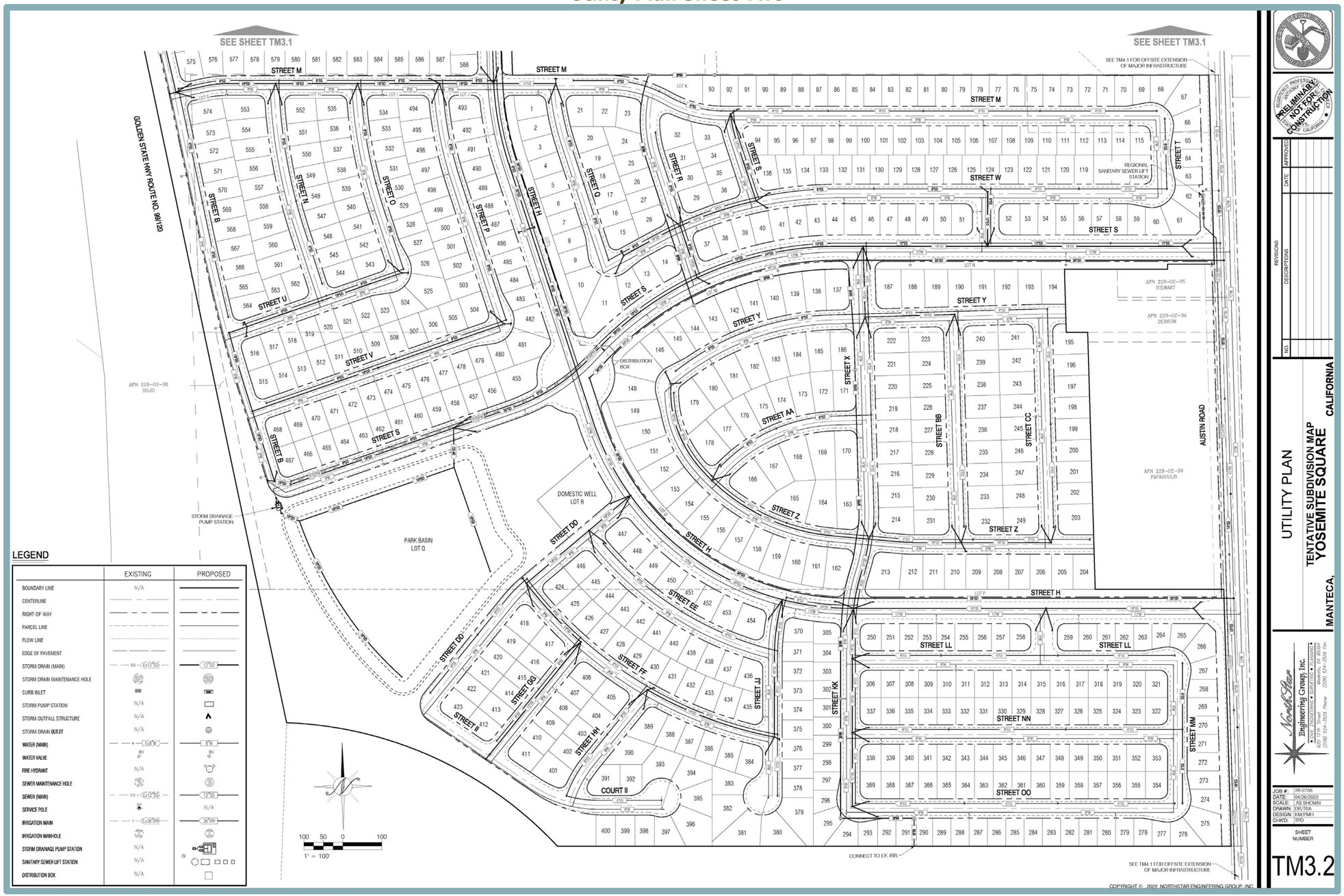


**Figure 6**
**Utility Plan Sheet Two**



Water supply to the proposed development would be provided by the City of Manteca Water Division, and sewer service would be provided by the City of Manteca Sewer Division. Electricity and natural gas service would be provided by Pacific Gas and Electric (PG&E).

## Parking, Access, and Circulation

The proposed project would include the construction of internal roadways throughout the project site to allow for internal site access, as well as sidewalks, bicycle lanes and parking lanes along the proposed roadways. The proposed internal roadway system would be designed to accommodate the capacity of the proposed project and provide additional vehicular access to the project site that would also accommodate the vehicular circulation for the future development of the City east of SR 99. Site access would be provided from Austin Road, to the east of the project site. A restricted access would be provided at the northwest corner of the project site, through a connection to SR 99; however, the restricted access would only be used by Caltrans employees to access a dedicated easement located along the project's western boundary. The neighborhoods within the project site would each include a network of minor collectors and residential streets to provide a flow of traffic through the area. Each of the proposed residential lots would include space for a two-car garage and two driveway spaces per lot, at minimum.

### Off-Site Roadway Improvements

Off-Site roadway improvements would include the widening of Austin Road along the entire project frontage including the outparcels located between the project entrances. The proposed improvements for Austin Road would require a 108-foot total right-of-way width at full build-out of the roadway. The proposed project would construct a partial street consisting of the following:

1. Dedication of a sufficient right-of-way along Austin Road to accommodate an 84-foot partial-width street section;
2. Construction of partial width street improvements along Austin Road, including a new street structural section, curbs, gutters, an eight-foot meandering sidewalk, a 14-foot-wide raised landscape within the Austin Road centerline, landscaping and automatic irrigation systems, signage, striping, and streetlights; and
3. A five-foot bike lane and two 11-foot travel lanes west of the median of Austin Road; and
4. A 12-foot travel lane and a four-foot paved shoulder east of the median of Austin Road.

## Parks and Landscaping Improvements

Approximately 7.7 acres of park and recreation facilities would be provided within the project site in a variety of forms, including community or neighborhood parks with active and passive components as approved by the City. The on-site parks may feature play fields, children play areas, picnic areas, ball courts, open lawn areas, or other amenities.

The proposed project would also incorporate a series of on-site landscape improvements. All park improvements and amenities would be consistent with the 2016 City of Manteca Parks and Recreation Master Plan. Trails, street tree and parkway strip improvements would also be included in the development of the proposed project. All landscaping would be implemented per the current City of Manteca Standards and Specifications for Landscape Design and the Model Water Efficient Landscape Ordinance (MWELO). In addition, all landscape irrigation would be installed with non-potable water components, as described above.

Connections from the proposed irrigation systems to the non-potable water service would be provided within the proposed internal roadway network in compliance with the City's Water

Division requirements. The on-site irrigation systems would be designed to maximize efficiency and meet the requirements of the City Parks Maintenance Division.

## General Plan Amendment

The project site is currently designated as LDR, MDR, HDR, BIP, and P by the City of Manteca General Plan. The proposed project would include a General Plan Amendment to redesignate the site as LDR, MDR, and P in order to accommodate the proposed project.

## Master Plan Amendment

The project site is currently zoned MP. The MP zone was established with the adoption of the Yosemite Square Master Plan, Ordinance Number 1506, by the Manteca City Council on April 3, 2012. The Master Plan established the land uses, development concepts, guidelines, and standards based on the goals and policies articulated in the City's General Plan. The land uses, development concepts, guidelines, and standards generally mirror the applicable zoning districts that match the General Plan land use designations of the site (LDR, MDR, HDR, BIP, and P). However, given that the land use designations would change with approval of the General Plan Amendment, the underlying zoning designation and Master Plan would need to be amended to match the new land use designation and proposed uses of the current project. The applicant provided an amended Master Plan document that would be approved with the proposed General Plan Amendment and Tentative Subdivision Map.

The Master Plan Amendment would detail the small lot design standards required of Section 17.26.040 of the City's Municipal Code. The design standards are intended to promote excellence in site planning and design to encourage the harmonious appearance of buildings and sites, to ensure that new and modified uses and development would be compatible with the existing and potential development of the surrounding area, and to produce an environment of stable, desirable character. Conformance to the design standards would occur during building permit review.

## Tentative Subdivision Map

As discussed above, the proposed project would include the subdivision of the project site into a total of 814 single-family residential lots, as well as the development of approximately 7.7 acres of parks and recreational facilities, public and private streets, a pedestrian trail system, water quality features, and the construction of required on- and off-site street and utility connections to serve the project site and surrounding areas (refer to Figure 3). Therefore, the proposed project would require approval of a tentative subdivision map.

## Project Approvals

The proposed project would require City approval of the following:

- IS/MND and MMRP;
- General Plan Amendment to designate the site as LDR, MDR, and P;
- Master Plan Amendment; and
- Tentative Subdivision Map.

## E. ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is "Less-Than-Significant with Mitigation Incorporated" as indicated by the checklist on the following pages.

| | | |
|---|---|---|
| ☐ **Aesthetics** | ✖ **Agriculture and Forest Resources** | ✖ **Air Quality** |
| ✖ **Biological Resources** | ✖ **Cultural Resources** | ☐ **Energy** |
| ✖ **Geology and Soils** | ☐ **Greenhouse Gas Emissions** | ☐ **Hazards and Hazardous Materials** |
| ☐ **Hydrology and Water Quality** | ☐ **Land Use and Planning** | ☐ **Mineral Resources** |
| ☐ **Noise** | ☐ **Population and Housing** | ☐ **Public Services** |
| ☐ **Recreation** | ☐ **Transportation** | ✖ **Tribal Cultural Resources** |
| ☐ **Utilities and Service Systems** | ☐ **Wildfire** | ☐ **Mandatory Findings of Significance** |

## F. DETERMINATION

On the basis of this initial study:

☐ I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

✖ 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 have been made by or agreed to by the applicant. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ 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 Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" 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 Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR, including revisions or mitigation measures that are imposed upon the Project, nothing further is required.

| | |
|---|---|
| Signature | Date |
| Lea Simvoulakis, Planning Manager | City of Manteca |
| Printed Name | For |

## G. ENVIRONMENTAL CHECKLIST

The following Checklist contains the environmental checklist form presented in Appendix G of the CEQA Guidelines. The checklist form is used to describe the impacts of the project. A discussion follows each environmental issue identified in the checklist. Included in each discussion are project-specific mitigation measures recommended, as appropriate, as part of the project. For this checklist, the following designations are used:

**Potentially Significant Impact:** An impact that could be significant, and for which no mitigation has been identified. If any potentially significant impacts are identified, an EIR must be prepared.

**Less Than Significant with Mitigation Incorporated:** An impact that requires mitigation to reduce the impact to a less-than-significant level.

**Less-Than-Significant Impact:** Any impact that would not be considered significant under CEQA relative to existing standards.

**No Impact:** The project would not have any impact.

| **I. 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. In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality? | ☐ | ☐ | ✖ | ☐ |
| d. Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b. Examples of typical scenic vistas would include mountain ranges, ridgelines, or bodies of water as viewed from a highway, public space, or other area designated for the express purpose of viewing and sightseeing. In general, a project's impact to a scenic vista would occur if development of the proposed project would substantially change or remove a scenic vista. The City's General Plan does not identify any scenic vistas in the project area. Thus, the proposed development would not have a substantial adverse effect on a designated scenic vista. In addition, according to the California Scenic Highway Mapping System, the project site is located approximately 17 miles east of the nearest State Scenic Highway, SR 580.[1] The project site is not visible from SR 580.

Based on the above, the proposed project would not have a substantial adverse effect on a scenic vista and would not substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a State Scenic Highway. Thus, a ***less-than-significant*** impact would occur.

c. The proposed project would change the visual character and quality of the site from an orchard to a single-family residential neighborhood. However, the project site is already located within an urban area and is surrounded by existing development to the north and west. Considering the project site is located in an urbanized area, the proposed project would essentially serve as an extension of the existing development in the project vicinity. In addition, the project would provide for landscaped strips with trees, shrubs, and groundcover along the project frontages. Such landscaped buffers would help to screen public views of the proposed residences from the surrounding roadways.

The City of Manteca considers agricultural land to be an important resource. Per the City's General Plan EIR, the visual character and quality of agricultural open space would be impacted if the development proposed in the City's General Plan occurs. While the proposed project would include a General Plan Amendment, the site is currently designated for residential and commercial development. Therefore, the City has generally anticipated the development of the site with urban uses. As such, changes to the visual character and quality of the site have been evaluated and approved by the City. In addition, as discussed above, the proposed project would include landscaping elements to screen

[1] California Department of Transportation. *List of eligible and officially designated State Scenic Highways*. Available at: https://dot.ca.gov/programs/design/lap-landscape-architecture-and-community-livability/lap-liv-i-scenic-highways. Accessed September 2021.

public views of the site and would be visually compatible with the surrounding development. Therefore, impacts related to degrading the existing visual character of the site and its surroundings or a conflict with applicable zoning and other regulations governing scenic quality would be ***less than significant***.

d. Implementation of the proposed project would develop the site with 814 single-family residences, and, thus, would introduce new sources of light and glare where none currently exist. Potential sources of light and glare associated with the proposed project would include interior light spilling through windows, vehicle headlights entering and exiting the project site, exterior lighting, and street lighting within the development area.

Due to the project site being used as an orchard, minimal sources of light and glare currently exist on-site. However, sources of light currently exist in the project vicinity, including headlights from vehicles travelling on nearby roadways, such as SR 99, and lighting associated with nearby development.

The proposed project would be required to comply with Section 17.50.060D of the City's Municipal Code, which states that outdoor lighting shall be designed to illuminate at the minimum level necessary for safety and security while avoiding the harsh contrasts in lighting levels between the project site and adjacent properties. In addition, the project would be required to comply with Section 17.50.060C of the City's Municipal Code, which requires the following:

> […] all outdoor lighting shall be constructed with full shielding and/or recessed to reduce light trespass to adjoining properties. Each fixture shall be directed downward and away from adjoining properties and public rights-of-way, so that no light fixture directly illuminates an area outside of the site. Fixtures located higher than 6 feet above the ground shall have shielding that limits to angle of the cone of direct illumination to 60 degrees or less.

Compliance with the aforementioned standards would be enforced through the Master Plan review process, and would ensure that on-site lighting would be directed downwards and within the project site and would not substantially illuminate adjacent properties. In addition, the new sources of light and glare associated with the proposed project would be consistent with the type of lighting anticipated for the project site per the City's General Plan land use and zoning designations for the site. Therefore, any additional of light or glare associated with the proposed project would not be considered substantial.

Based on the above, implementation of the proposed project would result in a ***less-than-significant*** impact with respect to creating a new source of substantial light or glare that would adversely affect day or nighttime views in the area.

| **II. AGRICULTURE AND FOREST RESOURCES.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| 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 non-agricultural 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? | ☐ | ☐ | ☐ | ✖ |
| 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? | ☐ | ✖ | ☐ | ☐ |

## Discussion

a,e. The project site is currently developed with agricultural uses, and is designated as "Farmland of Statewide Importance" per the California Department of Conservation Farmland Mapping and Monitoring Program (FMMP).[2] Thus, the development of the site would convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to a non-agricultural use, or otherwise result in the loss of Farmland to non-agricultural use. However, the project site is currently designated by the City's General Plan as LDR, MDR, HDR, BIP, and P; and the site is zoned MP. As such, the City has envisioned the conversion of the project site to urban uses and the associated loss of agricultural land.

The conversion of agricultural land, including the project site, to urban uses was identified as a significant and unavoidable impact by the City's General Plan EIR. Therefore, impacts associated with conversion of the project site were previously anticipated and addressed by the City, and the proposed project would not result in further impacts beyond what has been previously analyzed by the General Plan EIR. Furthermore, in 2005 the City of Manteca adopted an agricultural mitigation fee intended to mitigate the loss of agricultural lands converted for urban uses within the City. The fees collected are used to acquire farmland conservation easements or farmland deed restrictions. The fees are updated annually.

Although the City has previously anticipated the conversion of the project site to non-agricultural uses, in the absence of mitigation, implementation of the proposed project could result in impacts related to the conversion of Farmland of Statewide Importance to non-agricultural use. Thus, a ***potentially significant*** impact could occur.

[2] California Department of Conservation. *California Important Farmland Finder.* Available at: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed September 2021.

Mitigation Measure(s)

The following mitigation measure would ensure that the proposed project would pay the most current agricultural mitigation fee as calculated by the City's Building Division. Therefore, implementation of the following mitigation measure would reduce the above impact to a *less-than-significant* level.

*II-1* *Prior to the issuance of grading permits, the project applicant shall be required to pay the applicable agricultural mitigation fee in place as calculated by the Manteca Building Division per Chapter 13.42 of the City of Manteca Municipal Code. Receipt of payment shall be submitted to the City of Manteca Development Services Department for review to ensure compliance.*

b. Although the project site is currently in use as an orchard, the project site is not under a Williamson Act contract and is not designated or zoned for agricultural uses. Therefore, buildout of the project would not conflict with existing zoning for agricultural use or a Williamson Act contract, and ***no impact*** would occur.

c,d. The project area is not considered forest land (as defined in PRC Section 12220[g]), timberland (as defined by PRC Section 4526), and is not zoned Timberland Production (as defined by Government Code Section 51104[g]). Therefore, the project would have ***no impact*** with regard to conversion of forest land or any potential conflict with forest land, timberland, or Timberland Production zoning.

| **III. 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 plan? | ☐ | ✖ | ☐ | ☐ |
| b. 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? | ☐ | ✖ | ☐ | ☐ |
| c. Expose sensitive receptors to substantial pollutant concentrations? | ☐ | ☐ | ✖ | ☐ |
| d. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b. The City of Manteca, including the project site, is located within the northern portion of the San Joaquin Valley Air Basin (SJVAB) and is within the jurisdictional boundaries of the San Joaquin Valley Air Pollution Control District (SJVAPCD). The SJVAB area is currently designated as a non-attainment area for the State and federal ozone, State and federal particulate matter 2.5 microns in diameter ($PM_{2.5}$), and State particulate matter 10 microns in diameter ($PM_{10}$) standards. The SJVAB is designated attainment or unclassified for all other ambient air quality standards (AAQS). It should be noted that although the U.S. Environmental Protection Agency (EPA) revoked their 1-hour ozone standard in 2005, in May of 2016, the EPA proposed findings that the SJVAB was in attainment of the 1-hour ozone standard.

In compliance with regulations, due to the non-attainment designations of the area, the SJVAPCD periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the AAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies. The most recent ozone plan is the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard, which was adopted by the SJVAPCD on June 16, 2016. The California Air Resources Board (CARB) subsequently conducted a public meeting to consider approval of the 2016 Ozone Plan for the 2008 8-Hour Ozone Standard, and approved the plan on July 21, 2016. Additionally, the most recent federal attainment plan for PM is the 2016 Plan for the 1997 $PM_{2.5}$ Standard, which was approved by the District Governing Board on April 16, 2015.

The aforementioned air quality plans contain mobile source controls, stationary source controls, and transportation control measures (TCMs) to be implemented in the region to attain the State and federal standards within the SJVAB. Adopted SJVAPCD rules and regulations, as well as the thresholds of significance, have been developed with the intent to ensure continued attainment of AAQS, or to work towards attainment of AAQS for which the area is currently designated non-attainment, consistent with applicable air quality plans. The SJVAPCD has established broad significance thresholds associated with the construction and operation emissions for various criteria pollutants including ozone precursors such as reactive organic gases (ROG) and oxides of nitrogen ($NO_x$), as well as for $PM_{10}$, $PM_{2.5}$, sulfur oxide ($SO_x$), and carbon monoxide (CO) expressed in tons per year. Thus, by exceeding the SJVAPCD's mass emission thresholds for operational emissions of ROG, $NO_X$, $PM_{10}$, $PM_{2.5}$, $SO_x$, or CO a project would be considered to conflict with or obstruct implementation of the SJVAPCD's air quality planning efforts. The

SJVAPCD's adopted thresholds of significance for criteria pollutant emissions are presented in Table 1. If the proposed project's emissions exceed the applicable thresholds of significance presented in the table, the project could violate an air quality standard, contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plans.

**Table 1**
**SJVAPCD Criteria Pollutant Thresholds of Significance**

| Pollutant | Construction Emissions (tons/yr) | Operational Emissions (tons/yr) |
|---|---|---|
| ROG | 10 | 10 |
| $NO_X$ | 10 | 10 |
| CO | 100 | 100 |
| $SO_X$ | 27 | 27 |
| $PM_{10}$ | 15 | 15 |
| $PM_{2.5}$ | 15 | 15 |

***Source: SJVAPCD, March 19, 2015.***

To streamline the process of assessing significance of criteria pollutant emissions from common projects, the SJVAPCD has developed the screening tool, Small Project Analysis Level (SPAL). Using project type and size, the SJVAPCD has pre-quantified mass emissions and determined a size below which mass emissions from a project would be reasonably considered not to exceed the thresholds of significance presented above for criteria pollutants. Projects less than the sizes identified by the SJVAPCD are deemed to have a less-than-significant impact on air quality due to criteria pollutant mass emissions and are excluded from quantifying criteria pollutant emissions for CEQA purposes. The SPAL for single-family land uses is less than 155 dwelling units.[3] As discussed throughout this IS/MND, the proposed project would include the development of 814 single-family residences. Thus, the proposed project would exceed the SPAL, and further analysis is required.

The proposed project's construction and operational emissions were quantified using the California Emissions Estimator Model (CalEEMod) software version 2020.4.0 – a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. The model applies inherent default values for various land uses, including construction data, trip generation rates, vehicle mix, trip length, average speed, compliance with the California Building Standards Code (CBSC), etc. Where project-specific information is available, such information should be applied in the model. Accordingly, the proposed project's modeling assumes the following project and/or site-specific information:

- Construction would commence in January 2023 and take place over approximately four years;
- All equipment used during construction of the proposed project would include Tier 3 engines;
- The proposed project would result in approximately 9.51 trips per dwelling unit per day, consistent with the Transportation Evaluation prepared for the proposed project;[4]

[3] San Joaquin Valley Air Pollution Control District. *Small Project Analysis Levels (SPAL)*. November 13, 2020.
[4] Fehr & Peers. *Transportation Evaluation of Proposed Rezone of Yosemite Square Master Plan.* July 7, 2022.

- The proposed project would increase transit accessibility through on-site pedestrian connections and by being located approximately 0.75-mile from the nearest transit stop;
- The project would comply with the MWELO for the City; and
- The proposed residential units would include natural gas fireplaces only.

In addition, the Sacramento Metropolitan Air Quality Management District's (SMAQMD's) RoadMod, Version 9.0.0 was used to calculate the emissions associated with the construction of the off-site utility improvements. Although the project site is not located within the jurisdiction of SMAQMD, RoadMod is an industry standard tool for evaluating construction emissions associated with linear projects throughout the State. RoadMod requires the user to input information related to the area of disturbance, the length of time a project would occur, and, for linear non-roadway projects, a list of equipment that would be used during project construction. Based on applicant-provided information, modeling of the proposed project included the following assumptions:

- Construction start year – 2023;
- Project construction time – One month;
- Working days per month – 22 days;
- Project length – 1.54 miles;
- Total project area – 0.56 acres;
- Maximum area disturbed per day – 0.56 acres;
- No water trucks used; and
- Haul trip length – 15 miles.

The proposed project's estimated emissions associated with construction and operations are presented and discussed in further detail below. A discussion of the proposed project's contribution to cumulative air quality conditions is provided below as well. All CalEEMod and RoadMod results are included as Appendix A to this IS/MND.

It should be noted that all development within the SJVAPCD, including the proposed project, is required to comply with all applicable SJVAPCD rules and regulations, including, but not limited to, Regulation VIII (Fugitive $PM_{10}$ Prohibition), Rule 4101 (Visible Emissions), Rule 4601 (Architectural Coatings), Rule 4641 (Cutback Slow Cure, Emulsified Asphalt, Paving and Maintenance Operations), and Rule 4102 (Nuisance). Compliance with the aforementioned regulations would help to reduce criteria pollutant emissions associated with the construction activity discussed below.

## Construction Emissions

According to the CalEEMod results, the proposed project would result in maximum construction emissions as shown in Table 2. As shown in the table, construction emissions from the proposed project would be below the applicable thresholds of significance for all relevant criteria pollutants.

## Operational Emissions

According to the CalEEMod results, the operations of the proposed project would result in maximum criteria air pollutant emissions as shown in Table 3. As shown in the table, the proposed project's operational emissions would be below the applicable thresholds of significance for all pollutants except for ROG.

**Table 2**
**Maximum Construction Emissions (tons/yr)**

| | ROG | $NO_X$ | CO | $SO_X$ | $PM_{10}$ | $PM_{2.5}$ |
|---|---|---|---|---|---|---|
| CalEEMod Project Emissions | 5.59 | 3.99 | 6.07 | 0.02 | 1.44 | 0.52 |
| RoadMod Project Emissions | 0.01 | 0.05 | 0.07 | 0.00 | 0.04 | 0.01 |
| *Total Project Emissions* | *5.60* | *4.04* | *6.14* | *0.02* | *1.48* | *0.53* |
| **SJVAPCD Significance Threshold** | 10 | 10 | 100 | 27 | 15 | 15 |
| **Exceeds Threshold?** | **NO** | **NO** | **NO** | **NO** | **NO** | **NO** |

***Source: CalEEMod, April 2022 (see Appendix A).***

**Table 3**
**Maximum Operational Emissions (tons/yr)**

| Pollutant | Project Emissions | Threshold of Significance | Exceeds Threshold? |
|---|---|---|---|
| ROG | 10.58 | 10 | **YES** |
| $NO_X$ | 6.52 | 10 | **NO** |
| CO | 34.95 | 100 | **NO** |
| $SO_X$ | 0.78 | 27 | **NO** |
| $PM_{10}$ | 7.72 | 15 | **NO** |
| $PM_{2.5}$ | 2.20 | 15 | **NO** |

***Source: CalEEMod, April 2021 (see Appendix A).***

## Cumulative Emissions

A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development. Future attainment of ambient air quality standards is a function of successful implementation of SJVAPCD attainment plans. Consequently, the SJVAPCD's application of thresholds of significance for criteria pollutants is relevant to the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality.

A lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project would comply with the requirements in a previously approved plan or mitigation program, including, but not limited to an air quality attainment or maintenance plan that provides specific requirements that would avoid or substantially lessen the cumulative problem within the geographic area in which the project is located (California Code of Regulations [CCR] Section 15064[h][1]). Thus, as stated in Section 7.14 of the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts*, if project-specific emissions would exceed the thresholds of significance for criteria pollutants, the project would be expected to result in a cumulatively considerable net increase of any criteria pollutant for which the area is in non-attainment under applicable ambient air quality standards. As further discussed in Section 8.8 of the SJVAPCD *Guidance for Assessing and Mitigating Air Quality Impacts*, the SJVAPCD would consider projects consistent with the following to result in a less-than-cumulatively-significant impact related to air quality:

- SJVAPCD attainment plans;
- SJVAPCD rules and regulations;
- State air quality regulations;

- Project emissions below SJVAPCD thresholds of significance for criteria pollutants, localized CO, and toxic air contaminants (TACs); and
- Project emissions below AAQS.

As presented above, the proposed project would result in construction-related emissions below all applicable thresholds of significance, and operational emissions below all applicable thresholds of significance, with the exception of ROG. However, as discussed in further detail below, the proposed project would be required to implement Mitigation Measure III-1 to reduce ROG emissions to acceptable levels. In addition, as discussed in further detail below, the proposed project would be below the applicable thresholds of significance related to localized CO and TAC concentrations. Therefore, the proposed project would not be considered to result in a cumulatively considerable net increase in any criteria pollutant for which the area is under nonattainment for a federal or State AAQS (i.e., ozone and PM). Consequently, in accordance with SJVAPCD guidance, because the proposed project would result in emissions less than the thresholds of significance, the proposed project would correspondingly be considered to result in a less-than-significant cumulative impact to air quality.

## Conclusion

Based on the above, the proposed project would not exceed the applicable thresholds of significance for air pollutant emissions during construction. However, project operations would result in emissions that would exceed the threshold for operational ROG. Therefore, the proposed project could be considered to conflict with or obstruct implementation of the applicable air quality plans, or violate an air quality standard or contribute substantially to an existing or projected air quality violation, and a ***potentially significant*** impact could result.

### Mitigation Measure(s)

Implementation of the following mitigation measure would ensure that operational emissions of ROG would not exceed SJVAPCD thresholds of significance. Consequently, with implementation of the following mitigation measure, the proposed project would result in a *less-than-significant* impact.

*III-1.* *Prior to issuance of grading permits, the project applicant shall enter into a Voluntary Emissions Reduction Agreement with the SJVAPCD sufficient to reduce ROG emissions by 0.58 tons/year, for the review and approval by the City of Manteca Community Development Department.*

c. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by preexisting health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. The nearest sensitive receptors to the project site are the mobile homes located approximately 35 feet north of the site.

The major pollutant concentrations of concern are localized CO emissions and TAC emissions, which are addressed in further detail below.

## Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Implementation of the proposed project would increase traffic volumes on streets near the project site; therefore, the project could be expected to increase local CO concentrations. Concentrations of CO approaching the ambient air quality standards are only expected where background levels are high, and traffic volumes and congestion levels are high. In accordance with the State CO Protocol, the SJVAPCD has established preliminary screening criteria for determining whether the effect that a project would have on any given intersection would cause a potential CO hotspot. If either of the following is true for the proposed project, further CO analysis would be required:

- 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 would be reduced to LOS E or F; or
- A traffic study indicates that the project would substantially worsen (i.e., increase delay by more than five percent) an already existing LOS F on one or more streets or at more or more intersections in the project vicinity.

However, as discussed in Section XVII, Transportation, of this IS/MND, the State Legislature passed Senate Bill (SB) 743 with the intention of ultimately doing away with LOS in most instances as a basis for environmental analysis under CEQA. Therefore, for the purposes of assessing localized CO emission impacts associated with the proposed project, the thresholds of significance used by the nearby air districts, Placer County Air Pollution Control District (PCAPCD) and SMAQMD were applied to the proposed project. According to the PCAPCD screening levels, a project could result in a significant impact if the project would result in CO emissions from vehicle operations in excess of 550 lbs/day. The maximum unmitigated daily construction and operational emissions of CO generated by the proposed project are provided in Table 4 below. As shown in Table 4, CO emissions associated with the proposed project would be below the PCAPCD's 550 lbs/day screening level.

**Table 4**
**Maximum Unmitigated Emissions of CO (lbs/day)**

| Project Phase | CO Emissions |
|---|---|
| Construction | 52.09 |
| Operations | 238.37 |

***Source: CalEEMod, April 2022 (see Appendix A).***

Additionally, per the SMAQMD Guide, emissions of CO are generally of less concern than other criteria pollutants, as operational activities are not likely to generate substantial quantities of CO, and the SVAB has been in attainment for CO for multiple years. Given that the SJVAPCD is directly bounded by SMAQMD, emissions of CO can generally be assumed to be of less concern than other criteria pollutants within the SJVAPCD as well.

Based on the above, the proposed project would result in a less-than-significant impact related to localized CO emissions concentrations and would not expose sensitive receptors to substantial concentrations of localized CO.

## TAC Emissions (Health Risk Assessment)

Another category of environmental concern is TACs. The CARB's *Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended

setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure. Health-related risks associated with DPM in particular are primarily associated with long-term exposure and associated risk of contracting cancer. The proposed project would not involve any land uses or operations that would be considered major sources of TACs, including DPM. As such, the proposed project would not generate any substantial pollutant concentrations during operations.

Short-term, construction-related activities could result in the generation of TACs, specifically DPM, from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. Construction equipment would operate intermittently throughout the course of a day, would be restricted to daytime hours per the City's Noise Ordinance, and would likely only occur over portions of the improvement area at a time. In addition, all construction equipment and operation thereof would be regulated per the In-Use Off-Road Diesel Vehicle Regulation. Project construction would also be required to comply with all applicable SJVAPCD rules and regulations, particularly associated with permitting of air pollutant sources. Because health risks associated with TACs are a function of both the concentration of emissions and the duration of exposure, where the higher the concentration and/or the longer the period of time that a sensitive receptor is exposed to would correlate to a higher health risk, considering the short-term nature of construction activities, as well as the regulated and intermittent nature of the operation of construction equipment, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time would be low. Furthermore, the prevailing wind direction in the project area is most often from the west.[5] As a result, construction-related emissions would primarily flow towards the east, and would not be blown directly towards the nearest sensitive receptor to the north.

### Effects of DPM Emissions from SR 99 on Future Receptors

Impacts of the environment on a project (as opposed to impacts of a project on the environment) are beyond the scope of required CEQA review.[6] While not a CEQA consideration, due to the proximity of the project site to SR 99, which is considered a major source of TACs, the following discussion includes, for informational purposes, an analysis of the effects of DPM emissions from SR 99 on future receptors of the proposed project.

[5] Weather Spark. *Average Weather in Manteca California, United States*. Available at: https://weatherspark.com/y/1086/Average-Weather-in-Manteca-California-United-States-Year-Round. Accessed April 2022.

[6] "[T]he purpose of an EIR is to identify the significant effects of a project on the environment, not the significant effects of the environment on the project." (*Ballona Wetlands Land Trust v. Town of Los Angeles,* (2011) 201 Cal.App.4th 455, 473 (Ballona).) The California Supreme Court recently held that "CEQA does not generally require an agency to consider the effects of existing environmental conditions on a proposed project's future users or residents. What CEQA does mandate… is an analysis of how a project might exacerbate existing environmental hazards." (*California Building Industry Assn. v. Bay Area Air Quality Management Dist*. (2015) 62 Cal.4th 369, 392; see also *Mission Bay Alliance v. Office of Community Investment & Infrastructure* (2016) 6 Cal.App.5th 160, 197 ["identifying the effects on the project and its users of locating the project in a particular environmental setting is neither consistent with CEQA's legislative purpose nor required by the CEQA statutes"], quoting *Ballona, supra*, 201 Cal.App.4th at p. 474.) In the case of the proposed project, the impact of placing future residents within a TAC Risk Area is considered an existing environmental condition that would affect future users/residents.

It is noted that the project site is located near an existing trucking facility to the north. However, the trucking facility is not considered a distribution center, and, therefore, does not meet CARB's definition of major sources of TACs. Additionally, according to the CARB Handbook, providing a separation of 1,000 feet substantially reduces DPM concentrations and public exposure downwind of a distribution center.[7] While a portion of the trucking facility is located within 1,000 feet of the project site, the areas closest to the site, within a 1,000-foot radius, are used primarily for truck storage and are not expected to be associated with substantial emission of DPM. Consequently, impacts associated with emissions from the existing trucking facility are not included in the discussion below.

To assess the potential impacts of TAC exposure, the SJVAPCD maintains thresholds of significance for the review of local community risk and hazard impacts. The thresholds are designed to assess the impact of new sources of TACs on existing sensitive receptors. Based on the SJVAPCD thresholds, a significant impact would result if, due to the exposure of future residents to TACs related to DPM emissions from SR 99, future sensitive receptors would experience an increased cancer risk of greater than or equal to 20 in one million people, or experience a chronic or acute hazard index of greater than or equal to 1.0.[8]

Following the guidance within the SJVAPCD's *Guidance for Air Dispersion Modeling*,[9] the potential concentrations of TACs resulting from traffic along SR 99 within the project vicinity were calculated using the American Meteorological Society/Environmental Protection Agency (AMS/EPA) Regulatory Model (AERMOD) dispersion model. The results of AERMOD are presented Figure 7. As presented therein, the maximally exposed receptor, depicted by a white "X," is located in the southwest corner of the project site.

The associated cancer risk and non-cancer hazard index were calculated using the CARB's Hotspot Analysis Reporting Program Version 2 (HARP 2) Risk Assessment Standalone Tool (RAST), which calculates the cancer and non-cancer health impacts using the risk assessment guidelines of the 2015 Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual for Preparation of Health Risk Assessments.[10] The modeling was performed in accordance with the USEPA's User's Guide for the AERMOD[11] and the 2015 OEHHA Guidance Manual. All modeling results and side calculations related to the analysis of TAC exposure are presented within Appendix A of this IS/MND.

The number of vehicles that would travel along SR 99 each day was determined using the 2019 traffic volumes for count locations on SR 99 in the project vicinity, as provided by Caltrans.[12]

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7 California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective* [pg. 14]. April 2005.

8 San Joaquin Valley Air Pollution Control District. *Air Quality Thresholds of Significance – Toxic Air Contaminants*. Available at: http://www.valleyair.org/transportation/0714-GAMAQI-TACs-Thresholds-of-Significance.pdf. Accessed April 2022.

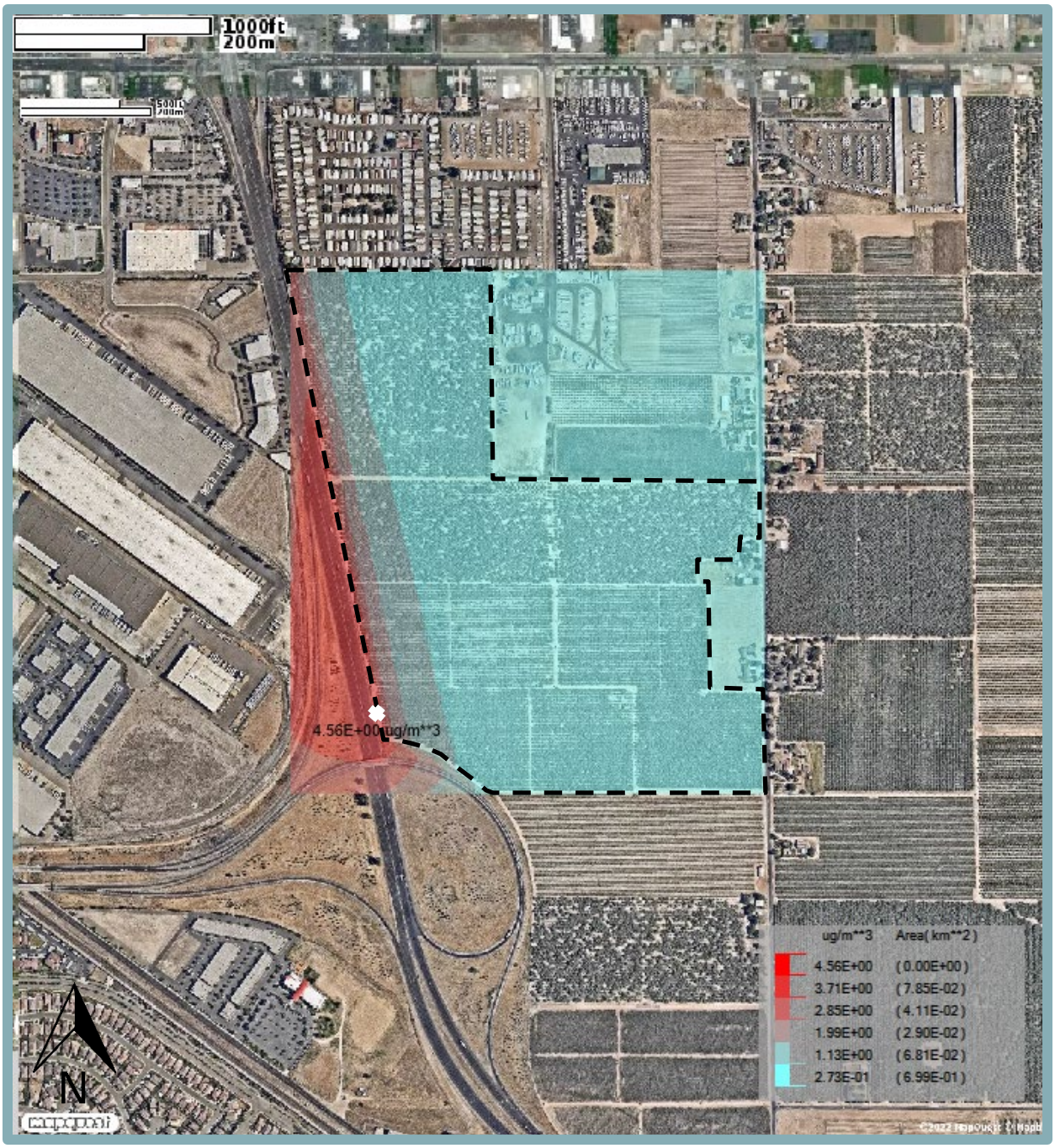
9 San Joaquin Valley Air Pollution Control District. *Guidance for Air Dispersion Modeling*. August 2006.

10 Office of Environmental Health Hazard Assessment. *Air Toxics Hot Spots Program Risk Assessment Guidelines, Guidance Manual for Preparation of Health Risk Assessments* [pg. 8-18]. February 2015.

11 U.S. Environmental Protection Agency. *User's Guide for the AMS/EPA Regulatory Model (AERMOD)*. December 2016.

12 Caltrans. *Traffic Volumes: Annual Average Daily Traffic (AADT) 2019.* Available at: https://dot.ca.gov/programs/traffic-operations/census. Accessed April 2022.

**Figure 7**
**AERMOD Results**



Emissions rates for the heavy-duty diesel-powered trucks was obtained through the CARB's mobile source emissions inventory (EMFAC) database.[13] Based on the DPM emissions generated by traffic travelling along SR 99 in the project vicinity, and the resultant DPM concentrations at future sensitive receptors, the potential increases in cancer risk and non-cancer hazard index at the maximally exposed receptor were calculated and are presented in Table 5. It should be noted that the cancer risks and non-cancer hazard indexes presented in Table 5 represent the risks over a 30-year exposure period.

**Table 5**
**Maximum Cancer Risk and Hazard Index Associated with Traffic along SR 99**

| | Cancer Risk (per million persons) | Acute Hazard Index | Chronic Hazard Index |
|---|---|---|---|
| At Maximally Exposed Receptor | 6.13 | 0.00 | 0.001 |
| *Thresholds of Significance* | *20* | *1.0* | *1.0* |
| **Exceed Thresholds?** | **NO** | **NO** | **NO** |

***Sources: CalEEMod, EMFAC, AERMOD, and HARP 2 RAST, March 2022 (see Appendix A).***

As shown in Table 5, emissions from traffic along SR 99 would result in cancer risk and hazard index at the project site below the applicable SJVAPCD thresholds of significance. Consequently, siting future residences at the project site would not expose future sensitive receptors to excess concentrations of pollutants.

## Conclusion

Based on the above, the proposed project would not cause or be exposed to substantial pollutant concentrations, including localized CO or TACs, and impacts related to such would be ***less than significant***.

d. Emissions such as those leading to odors have the potential to adversely affect sensitive receptors within the project area. Pollutants of principal concern include emissions leading to odors, emission of dust, or emissions considered to constitute air pollutants. Air pollutants have been discussed in section "a" through "c" above. Therefore, the following discussion focuses on emissions of odors and dust.

## Odors

Odors are generally regarded as an annoyance rather than a health hazard. Manifestations of a person's reaction to odors can range from psychological (e.g., irritation, anger, or anxiety) to physiological (e.g., circulatory and respiratory effects, nausea, vomiting, and headache). The presence of an odor impact is dependent on several variables including: the nature of the odor source; the frequency of odor generation; the intensity of odor; the distance of odor source to sensitive receptors; wind direction; and sensitivity of the receptor.

[13] California Air Resources Board. *Mobile Source Emissions Inventory*. Available at https://arb.ca.gov/emfac/emissions-inventory. Accessed March 2022.

Due to the subjective nature of odor impacts, the number of variables that can influence the potential for an odor impact, and the variety of odor sources, it is difficult to quantitatively determine the presence of a significant odor impact. Typical odor-generating land uses include, but are not limited to, wastewater treatment plants, landfills, and composting facilities. The project is not located in the vicinity of any existing or planned land uses that would be considered major sources of odors. The proposed project would include the construction and operation of a sewer pump station, which would be located along Austin Road, adjacent to the southern project entrance. The proposed sewer pump station would have the potential to result in odors within the project area. Apart from the proposed sewer pump station, operations of the proposed project would not be anticipated to result in the creation of substantial odors.

As discussed above, agencies subject to CEQA generally are not required to analyze the impact of existing environmental conditions on a project's future users or residents. Therefore, the following analysis is appropriately limited to the potential effects that the proposed project, specifically the sewer pump station, may have on the surrounding environment, and not future on-site residents, pursuant to California Building Industry Association case law. The nearest outdoor activity area associated with the existing sensitive receptors in the project vicinity would be located approximately 110 feet north of the pump station.

The potential for sewer pump stations to result in odors is largely dependent upon the size of the area serviced by the proposed pump station and if the pump station receives sewerage flows from other pump stations. Sewer pump stations that service large sewer shed areas or receive flows from other pump stations can have a heightened potential for creating odors, because sewage collected over large areas or transported over large distances is exposed to anaerobic conditions where odors can be generated. In addition to the consideration of the potential for a proposed pump station to result in the generation of odors, the distance between the proposed pump station and the nearest receptors, as well as the site conditions surrounding the pump station are factors to determine if odor impacts would occur.

The proposed sewer pump station was included as a planned improvement within the City's 2012 Wastewater Collection System Master Plan Update.[14] According to the Master Plan Update, the proposed pump station would not receive flows from other upstream pump stations. Therefore, the proposed pump station would not be conducive to anaerobic conditions as the proposed pump station would not handle sewage from off-site areas that had been transported over long distances. As such, operations of the sewer pump station are not anticipated to result in substantial odors. Moreover, the nearest off-site receptor to the proposed sewer pump station would be approximately 110 feet away from the pump station, which would provide distance for odors to dissipate. For the purposes of avoiding impacts related to operations of sewer pump stations, a setback distance of 50 feet or more is typically sufficient to avoid impacts. The nearest off-site receptors would be well outside of the 50-foot setback. While not a CEQA issue, it should be noted that the nearest proposed residences would be located approximately 30 feet from the proposed sewer pump station, which would be within the 50-foot setback distance. However, as discussed above, the prevailing wind direction in the project area is most often from the west. As a result, odorous emissions would primarily flow towards the east, and would not be blown

[14] City of Manteca Department of Public Works. *City of Manteca 2012 Wastewater Collection System Master Plan Update.* January 2013.

directly towards the nearest sensitive receptor to the north, or the nearest proposed on-site receptors. While existing residences are also located to the east, the nearest outdoor activity area of the residences would be located well outside the 50-foot setback distance, and a reasonable assumption can be made that the odors from the sewer pump station would be dispersed such that substantial odor impacts at the residences to the east would not occur.

Considering the above, minimal odors would result from operation of the pump station and all off-site receptors would be sufficiently separated from the proposed pump station. Consequently, operation of the proposed pump station would not result in the exposure of off-site sensitive receptors to substantial odors.

Construction activities often include diesel fueled equipment and heavy-duty trucks, which could create odors associated with diesel fumes that may be considered objectionable. However, construction activities would be temporary, and operation of construction equipment would be restricted to the hours of 7:00 AM to 7:00 PM, per Section 17.58.050(E)(1) of the City's Municipal Code. In addition, while the nearest sensitive receptors are located in relatively close proximity to the project site boundary, considering the large overall development area, construction equipment would operate at various locations throughout the project site intermittently, and the distances from the nearest sensitive receptors would allow for dispersal of diesel odors. Accordingly, substantial objectionable odors would not be expected to occur during construction activities.

Nonetheless, the project would be subject to the SJVAPCD's Rule 4102, which allows members of the public to submit complaints regarding odor. Thus, although not anticipated, if odor complaints are made after the proposed project is developed, the SJVAPCD would ensure that such odors are addressed, and any potential odor effects reduced to less than significant.

## Dust

During construction, the project would be required to comply with all applicable SJVAPCD rules and regulations regarding fugitive dust, including Regulation VIII. Pursuant to the provisions of Regulation VIII, for projects in which construction-related activities would disturb greater than one acre of land, the SJVAPCD requires preparation of a Dust Control Plan or Construction Notification form before issuance of the first grading permit. The proposed project would be subject to this regulation, and submittal of the Dust Control Plan or Construction Notification would be ensured by the City as a condition of project approval.

Following project construction, vehicles operating within the project site would be limited to paved areas of the site, and non-paved areas would be landscaped. Thus, project operations would not include sources of dust that could adversely affect a substantial number of people. Following project construction, the project site would not include any exposed topsoil. Thus, project operations would not include any substantial sources of dust.

## Conclusion

For the reasons discussed above, construction and operation of the proposed project would not result in emissions, such as those leading to odors and/or dust, that would

adversely affect a substantial number of people, and a ***less-than-significant*** impact would occur.

| **IV. BIOLOGICAL RESOURCES.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service? | ☐ | ✖ | ☐ | ☐ |
| b. Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service? | ☐ | ☐ | ✖ | ☐ |
| c. Have a substantial adverse effect on state or federally protected wetlands (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 resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of 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? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. A Biological Resources Evaluation (BRE) was prepared for the proposed project by Helix Environmental Planning (see Appendix B).[15] The results of the BRE are presented below.

Per the BRE, almond orchards comprise the entire project site. Trees in the northern portion of the site appear younger than the rest of the orchard, but all trees are mature and well developed. The orchards appear to receive water from both drip and flood irrigation. The understory of the orchard is sparse, with some small herbaceous species occurring in the rows of the orchard included chickweed (*Stellaria media*), long-beak filaree (*Erodium botrys*), annual blue grass (*Poa annua*), white clover (*Trifolium repens*), and cheeseweed (*Malva parviflora*). Additionally, several small dirt access roads, as well as irrigation outfalls, occur throughout the orchard. The off-site utility and roadway improvement areas would be located along the existing roadways within the project vicinity.

As part of the BRE, Helix Environmental Planning reviewed California Natural Diversity Database (CNDDB), California Native Plant Society (CNPS) Inventory, and U.S. Fish & Wildlife Service (USFWS) iPAC database for special status species potentially occurring within the project site quadrangle and the eight surrounding quadrangles. In addition, on April 1, 2021, a field survey was conducted to evaluate the project site for the presence of special-status species and/or habitat types which could support special-status species. The results of the database search and field survey are discussed in further detail below.

[15] Helix Environmental Planning, Inc. *Yosemite Square Project Biological Resources Evaluation*. April 2021.

Special-status species include those plant and wildlife species that have been formally listed, are proposed as endangered or threatened, or are candidates for such listing under the federal and State Endangered Species Acts. Both acts afford protection to listed and proposed species. In addition, California Department of Fish and Wildlife (CDFW) Species of Special Concern, which are species that face extirpation in California if current population and habitat trends continue, USFWS Birds of Conservation Concern, sensitive species included in USFWS Recovery Plans, and CDFW special-status invertebrates are all considered special-status species. Although CDFW Species of Special Concern generally do not have special legal status, they are given special consideration under CEQA. In addition to regulations for special-status species, most birds in the U.S., including non-status species, are protected by the Migratory Bird Treaty Act (MBTA) of 1918. Under the MBTA, destroying active nests, eggs, and young is illegal. In addition, plant species on CNPS Lists 1 and 2 are considered special-status plant species and are protected under CEQA.

## Special-Status Plants

A total of 20 regionally occurring special-status plant species were identified during the CNDDB database search to occur in the region surrounding the project site. However, plants identified in the CNDDB database search occur on alkaline soils, in vernal pools, and in habitat types that do not occur within the project site. The project site is comprised of sandy and loamy-sand soils and natural water resources are not present. In addition, the site appears to be routinely disturbed and/or altered to maintain the almond orchards. Therefore, suitable habitat for special-status plants does not exist within the project site, Based on the field observations, literature review, and a review of published information conducted as part of the BRE, listed and/or special-status plants do not have the potential to occur within the project site.

## Special-Status Wildlife

According to the CNDDB records search, 34 special-status wildlife species have the potential to occur within the region surrounding the project site. However, based on the field observations, literature review, and a review of published information conducted as part of the BRE, only one special-status wildlife species, the Swainson's hawk (*Buteo swainsoni*), has the potential to occur on-site. In addition, other migratory birds and raptors protected under federal, State, and local laws also have potential to occur within the project site.

### *Swainson's Hawk*

Swainson's hawk is a State-listed threatened species. In the California Central Valley, Swainson's hawks nest in isolated trees, small groves, or large woodlands next to open grasslands or agricultural fields. The species typically nests near riparian areas, but can nest in urban areas as well. Nests of twigs and grasses are constructed in isolated trees or bushes, shelterbelts, riparian groves, or abandoned homesteads, approximately nine to 15 feet above the ground in cottonwood, poplar, oak and the occasional pine tree in the Central Valley.

The CNDDB search returned 14 records of Swainson's hawk occurrences within five miles of the project site. The nearest occurrence is approximately 1.36-miles from the project site. Additionally, the species was observed soaring over the project site during the field survey.

Swainson's hawks are not known to nest within orchards, and the trees within the project site are too short and too closely spaced to provide suitable nesting habitat. Suitable foraging habitat also does not occur on the project site. However, many trees suitable for nesting are present adjacent to the project site, and in the surrounding vicinity. While Swainson's hawk is not expected to nest directly on the project site, the species may nest within the vicinity of the site and potentially be impacted by the proposed project if nesting is occurring in adjacent habitat.

Project activities such as clearing, grading, and other ground disturbing activities during the nesting season (March 15 through September 15) could result in injury or mortality of eggs and chicks directly through destruction, or indirectly through forced nest abandonment due to noise and other disturbance. As such, in the absence of mitigation, implementation of the proposed project could result in adverse effects to Swainson's hawk.

### *Nesting Migratory Birds and Raptors*

The project site and immediate vicinity provides nesting and foraging habitat for a variety of nesting migratory birds and raptors. Many birds were observed within the orchard during the field survey including American robin (*Turdus migratorius*), lesser goldfinch (*Spinus psaltria*), Cooper's hawk (*Accipiter cooperii*), Anna's hummingbird (*Calypte anna*), and lark sparrow (*Chondestes grammacus*). Active nests were not observed during the field survey; however, birds have the potential to nest in and adjacent to the project site, in trees, shrubs, and on the ground.

Project activities such as clearing, grading, and other ground disturbing activities during the avian nesting season (February 1 through August 31) could result in injury or mortality of eggs and chicks directly through destruction or indirectly through forced nest abandonment due to noise and other disturbance. As such, in the absence of mitigation, implementation of the proposed project could result in adverse effects to nesting migratory birds and raptors.

## Conclusion

Based on the above, implementation of the proposed project could potentially result in adverse effects to Swainson's hawk and other nesting migratory birds and raptors. As such, the proposed project could result in an adverse effect, either directly or through habitat modifications, on species identified as special-status species in local or regional plans, policies, or regulations, or by the CDFW or the USFWS. Therefore, the impact would be ***potentially significant***.

### Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above impact to a *less-than-significant* level.

### *Swainson's Hawk*

*IV-1* *Prior to the commencement of grading activities during the nesting season for Swainson's hawk (between February 1 and August 31):*

1. *A qualified biologist or qualified ornithologist shall conduct two nesting surveys within 30 days prior to construction, and within three days prior to construction to determine if active Swainson's*

*hawk nests are present on or adjacent to the project site. If disturbance associated with the project would occur outside of the nesting season, surveys shall not be required. Results of the preconstruction survey shall be submitted to the City of Manteca Development Services Department for review. If nests are not detected, further mitigation is not required.*

2. *If Swainson's hawk are identified as nesting on or adjacent to the project site, a non-disturbance buffer of two times the dripline of the tree shall be established or as otherwise prescribed by a qualified ornithologist. The buffer shall be demarcated with painted orange lath or via the installation of orange construction fencing. Disturbance within the buffer shall be postponed until a qualified ornithologist has determined that the young have attained sufficient flight skills to leave the area or that the nesting cycle has otherwise completed.*
3. *If a nest tree becomes occupied at any time during construction activities, all construction activities shall remain a distance of two times the dripline of the tree, measured from the nest.*
4. *If nesting Swainson's hawks are present on land adjacent to the project footprint, the biologist or qualified ornithologist shall monitor the nest throughout the nesting season and determine when the young have fledged. The approved biologist shall be on-site daily while construction-related activities are taking place within the buffer zone (two times the dripline of the tree).*
5. *A qualified biologist shall conduct an environmental awareness training for all construction personnel prior to the initiation of construction activities. The training shall include identification of Swainson's hawk, required practices to be implemented prior to and during construction, general measures that are being implemented to conserve the species as they relate to the project, penalties for non-compliance, boundaries of the non-disturbance buffer zones, and what to do/whom to contact should a Swainson's hawk be observed onsite during construction. Upon completion of the training, all construction personnel shall sign a form stating that they have attended the training and understand all the measures. Proof of environmental awareness training completion shall be submitted to the City of Manteca Development Services Department.*

### *Nesting Migratory Birds and Raptors*

*IV-2* *If project activities commence during the avian breeding season (February 1 through August 31), a qualified biologist shall conduct a pre-construction nesting bird survey within 7 days prior to initiation of project activities. The survey area shall include suitable raptor nesting habitat within 500 feet of the project boundary (inaccessible areas outside of the project area can be surveyed from the site or from public roads using binoculars or spotting scopes). Pre-construction surveys are not required in areas where project activities have been continuous since prior to February 1, as determined by a qualified biologist. Areas that have been inactive for more than 14 days during the avian breeding season must be re-surveyed prior to resumption of project activities. Results of the preconstruction survey shall*

*be submitted to the City of Manteca Development Services Department for review. If active nests are not identified, further mitigation is not required. If active nests are identified, the following measure shall be implemented:*

- *A species-specific buffer shall be established by a qualified biologist around active nests, and construction activities shall not occur within the buffer until a qualified biologist has determined that the nest is no longer active (i.e., the nestlings have fledged and are no longer reliant on the nest, or the nest has failed). Encroachment into the buffer may occur at the discretion of a qualified biologist. Any encroachment into the buffer shall be monitored by a qualified biologist to determine whether nesting birds are being impacted.*

b,c. Aquatic resources, protected wetlands, riparian habitat, and otherwise sensitive communities do not exist on the project site. Therefore, implementation of the proposed project would not result in impacts related to having a substantial adverse effect on a riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the CDFW or USFWS or related to having 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. Thus, a ***less-than-significant*** impact would occur.

d. Movement corridors or landscape linkages are usually linear habitats that connect two or more habitat patches, providing assumed benefits to the species by reducing inbreeding depression and increasing the potential for recolonization of habitat patches. The project site is located in an urbanized area of the City, and is bordered by SR 99 and industrial buildings to the west, commercial businesses to the northwest, Austin Road, scattered single-family residences, and agricultural land to the east, a mobile home park and a trucking facility to the north, and agricultural land to the south. The existing setting of the surrounding area limits the potential for use of the project site as a wildlife movement corridor. In addition, the site has been routinely disturbed and/or altered to maintain the on-site almond orchard, and the project site does not include any rivers or creeks that would support aquatic species. As a result, the site does not offer, and is not adjacent to, any prime habitat such as wetlands, riparian, or forest, and, as such, the potential for use of the site as a wildlife corridor or native wildlife nursery site is limited.

Based on the above, development of the proposed project would not substantially interfere with the movement of any resident or migratory fish or wildlife species or with established resident or migratory wildlife corridors, or impede the use of wildlife nursery sites, and a ***less-than-significant*** impact would occur.

e. The project site currently consists of orchard land, and orchard trees are considered a typical agricultural use. Therefore, approval for the removal of orchard trees is not required under the City's tree removal ordinance. However, the removal of any non-orchard trees located on the project site would be required to comply with all provisions set forth in Section 12.08.070, Tree Trimming or Removal, and Section 17.48.060, Landscape Care, Maintenance, and Replacement, of the Municipal Code. Additionally, the proposed project would plant additional trees as part of the landscaping plan for the site.

Because development of the project site would comply with the City of Manteca's Municipal Code provisions related to tree removal, and the proposed project would incorporate additional new trees as part of the landscaping plan, the proposed project would have a ***less-than-significant*** impact related to conflicting with local policies or ordinances protecting biological resources.

f. On February 5, 2001, the City of Manteca adopted the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP). The SJMSCP covers 97 fish, plant, and wildlife species which are afforded varying degrees of protection under CEQA, the California Endangered Species Act, the U.S. Endangered Species Act, the MBTA, and other local, State, and federal regulations. Chapter 13.40 of the City's Municipal Code requires project applicants to pay applicable development fees to fund implementation of the SJMSCP. As demonstrated in General Plan EIR Figure 6-2, the project site is located in an area designated as Category B: Other Open Spaces, and is located in Pay Zone A. Payment based on the project site's SJMSCP designations would be required before ground-disturbing activity on the project site begins, pursuant to Chapter 13.40 of the City's Municipal Code. Furthermore, implementation of Mitigation Measures IV-1 and IV-2 would ensure that any potential impacts to Swainson's hawk and other nesting migratory birds and raptors, which are covered by the SJMSCP, would be reduced to less-than-significant levels. As such, the proposed project would result in a ***less-than-significant*** impact related to conflicting with the provisions of an adopted Habitat Conservation Plan.

| **V. 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 pursuant to Section 15064.5? | ☐ | ✖ | ☐ | ☐ |
| b. Cause a substantial adverse change in the significance of a unique archaeological resource pursuant to Section 15064.5? | ☐ | ✖ | ☐ | ☐ |
| c. Disturb any human remains, including those interred outside of dedicated cemeteries. | ☐ | ✖ | ☐ | ☐ |

## Discussion

a-c. Historical resources are features that are associated with the lives of historically important persons and/or historically significant events, that embody the distinctive characteristics of a type, period, region or method of construction, or that have yielded, or may be likely to yield, information important to the pre-history or history of the local area, California, or the nation. Examples of typical historical resources include, but are not limited to, buildings, farmsteads, rail lines, bridges, and trash scatters containing objects such as colored glass and ceramics.

Currently, the project site is in use as agricultural land and is comprised entirely of an almond orchard consisting of mature and immature trees. Thus, the site does not contain any existing structures, buildings, or other features which would be considered historical.

A records search of the California Historic Resources Information System (CHRIS) was performed by the Central California Information Center (CCIC) for cultural resource site records and survey reports within the project area.[16] The CCIC concluded that the project site does not contain any recorded historic buildings or structures on any lists of historic resources. Based on the results of the records search of the CHRIS, the CCIC concluded that the project site does not contain any recorded archaeological resources. A search of the Native American Heritage Commission (NAHC) Sacred Lands File indicated that the project site does not contain any known Tribal Cultural Resources.[17]

Furthermore, while the proposed project would include a General Plan Amendment, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. The General Plan EIR concluded that buildout of the General Plan, including the project site, would result in a less-than-significant impact related to cultural resources, provided that development projects within the City implement project-level mitigation to avoid resources.

While known resources do not exist on-site, previously unknown historical or archaeological resources, including human remains, may exist in the project area. Such resources have the potential to be uncovered during ground-disturbing activities at the project site, and the proposed project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to CEQA Guidelines Section

[16] Central California Information Center. *Records Search File#: 11891L, Project: Yosemite Square Subdivision.* September 9, 2021.

[17] Native American Heritage Commission. *Re: Native American Consultation, Pursuant to Senate Bill 18, Government Code §65352.3 and §65352.4, Yosemite Square Subdivision Project, San Joaquin County.* October 20, 2021.

15064.5 and/or disturb human remains, including those interred outside of dedicated cemeteries, during construction. Therefore, without mitigation, impacts could be considered ***potentially significant***.

## Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above impact to a *less-than-significant* level.

*V-1* *If potentially significant historic or archeological resources are encountered during subsurface excavation activities, all construction activities within a 100-foot radius of the resource shall cease until a qualified archaeologist determines whether the resource requires further study. The City shall require that the applicant include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. Any previously undiscovered resources found during construction shall be recorded on appropriate California Department of Parks and Recreation forms and evaluated for significance in terms of California Environmental Quality Act criteria by a qualified archaeologist. Potentially significant cultural resources consist of but are not limited to stone, bone, fossils, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. If the resource is determined to be significant under CEQA, the City and a qualified archaeologist shall determine whether preservation in place is feasible. Such preservation in place is the preferred mitigation. If such preservation is infeasible, the qualified archaeologist shall prepare and implement a research design and archaeological data recovery plan for the resource. The archaeologist shall also conduct appropriate technical analyses, prepare a comprehensive written report and file it with the appropriate information center (California Historical Resources Information System), and provide for the permanent curation of the recovered materials.*

*V-2* *If previously unknown human remains are encountered during construction activities, Section 7050.5 of the California Health and Safety Code applies, and the following procedures shall be followed: In the event of an accidental discovery or recognition of any human remains, Public Resource Code Section 5097.98 must be followed. The City shall require that the applicant include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. Once project-related ground disturbance begins and if there is accidental discovery of human remains, the following steps shall be taken:*

- *There shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the San Joaquin County Coroner's Office is contacted to determine if the remains are Native American and if an investigation into cause of death is required. If the coroner determines the remains are Native American, the coroner shall contact the NAHC within 24 hours, and the NAHC shall identify the person or persons it believes to be the "most likely descendant" of the deceased Native American. The most likely descendant may*

*make recommendations to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98.*

| **VI. ENERGY.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation? | ☐ | ☐ | ✖ | ☐ |
| b. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b. The main forms of available energy supply are electricity, natural gas, and oil. Electricity and natural gas are currently provided to the project site by PG&E. A description of the 2019 California Green Building Standards Code and the Building Energy Efficiency Standards, with which the proposed project would be required to comply, as well as discussions regarding the proposed project's potential effects related to energy demand during construction and operations are provided below.

### California Green Building Standards Code

The 2019 California Green Building Standards Code, otherwise known as the CALGreen Code (CCR Title 24, Part 11), is a portion of the 2019 California Building Standards Code (CBSC), which became effective with the rest of the CBSC on January 1, 2020. The purpose of the CALGreen Code is to improve public health, safety, and general welfare by enhancing the design and construction of buildings through the use of building concepts having a reduced negative impact or positive environmental impact and encouraging sustainable construction practices. The provisions of the code apply to the planning, design, operation, construction, use, and occupancy of every newly constructed building or structure throughout California. Requirements of the CALGreen Code include, but are not limited to, the following measures:

- Compliance with relevant regulations related to future installation of Electric Vehicle charging infrastructure in residential and non-residential structures;
- Indoor water use consumption is reduced through the establishment of maximum fixture water use rates;
- Outdoor landscaping must comply with the California Department of Water Resources' MWELO, or a local ordinance, whichever is more stringent, to reduce outdoor water use;
- Diversion of 65 percent of construction and demolition waste from landfills; and
- Mandatory use of low-pollutant emitting interior finish materials such as paints, carpet, vinyl flooring, and particle board.

### Building Energy Efficiency Standards

The 2019 Building Energy Efficiency Standards is a portion of the CBSC, which expands upon energy efficiency measures from the 2016 Building Energy Efficiency Standards resulting in a seven percent reduction in energy consumption from the 2016 standards for residential structures. Energy reductions relative to previous Building Energy Efficiency Standards would be achieved through various regulations including requirements for the use of high efficacy lighting, improved water heating system efficiency, and high-performance attics and walls. One of the improvements included within the 2019 Building Energy Efficiency Standards is the requirement that certain residential developments, including some single-family and low-rise residential developments, include on-site solar

energy systems capable of producing 100 percent of the electricity demanded by the residences. Certain residential developments, including developments that are subject to substantial shading, rendering the use of on-site solar photovoltaic systems infeasible, are exempted from the foregoing requirement; however, such developments are subject to all other applicable portions of the 2019 Building Energy Efficiency Standards. Once rooftop solar electricity generation is factored in, homes built under the 2019 standards will use approximately 53 percent less energy than those under the 2016 standards.[18]

## Construction Energy Use

Construction of the proposed project would involve on-site energy demand and consumption related to use of oil in the form of gasoline and diesel fuel for construction worker vehicle trips, hauling and materials delivery truck trips, and operation of off-road construction equipment. In addition, diesel-fueled portable generators may be necessary to provide additional electricity demands for temporary on-site lighting, welding, and for supplying energy to areas of the sites where energy supply cannot be met via a hookup to the existing electricity grid. Project construction would not involve the use of natural gas appliances or equipment.

Even during the most intense period of construction, due to the different types of construction activities (e.g., site preparation, grading, building construction), only portions of the project site would be disturbed at a time, with operation of construction equipment occurring at different locations on the project site, rather than a single location. In addition, all construction equipment and operation thereof would be regulated per the CARB In-Use Off-Road Diesel Vehicle Regulation. The In-Use Off-Road Diesel Vehicle Regulation is intended to reduce emissions from in-use, off-road, heavy-duty diesel vehicles in California by imposing limits on idling, requiring all vehicles to be reported to CARB, restricting the addition of older vehicles into fleets, and requiring fleets to reduce emissions by retiring, replacing, or repowering older engines, or installing exhaust retrofits. The In-Use Off-Road Diesel Vehicle Regulation would subsequently help to improve fuel efficiency and reduce energy use. Technological innovations and more stringent standards are being researched, such as multi-function equipment, hybrid equipment, or other design changes, which could help to reduce demand on oil and emissions associated with construction.

The CARB has prepared the *2017 Climate Change Scoping Plan Update* (2017 Scoping Plan),[19] which builds upon previous efforts to reduce GHG emissions and is designed to continue to shift the California economy away from dependence on fossil fuels. Appendix B of the 2017 Scoping Plan includes examples of local actions (municipal code changes, zoning changes, policy directions, and mitigation measures) that would support the State's climate goals. The examples provided include, but are not limited to, enforcing idling time restrictions for construction vehicles, utilizing existing grid power for electric energy rather than operating temporary gasoline/diesel-powered generators, and increasing use of electric and renewable fuel-powered construction equipment. The regulations described above, with which the project must comply, would be consistent with the intention of the 2017 Scoping Plan and the recommended actions included in Appendix B of the 2017 Scoping Plan.

[18] California Energy Commission. *Title 24 2019 Building Energy Efficiency Standards FAQ*. November 2018.
[19] California Air Resources Board. *The 2017 Climate Change Scoping Plan Update.* January 20, 2017.

Based on the above, the temporary increase in energy use occurring during construction of the proposed project would not result in a significant increase in peak or base demands or require additional capacity from local or regional energy supplies. In addition, the proposed project would be required to comply with all applicable regulations related to energy conservation and fuel efficiency, which would help to reduce the temporary increase in demand.

## Operational Energy Use

Following implementation of the proposed project, PG&E would provide electricity and natural gas to the project site. Energy use associated with operation of the proposed project would be typical of residential uses, requiring electricity for interior and exterior building lighting, heating, ventilation, and air conditioning (HVAC), electronic equipment, machinery, refrigeration, appliances, security systems, and more. Maintenance activities during operations, such as landscape maintenance, would involve the use of electric or gas-powered equipment. In addition to on-site energy use, the proposed project would result in transportation energy use associated with vehicle trips generated by the proposed development.

The project would be subject to all relevant provisions of the most recent update of the CBSC, including the Building Energy Efficiency Standards. Adherence to the most recent CALGreen Code and the Building Energy Efficiency Standards would ensure that the proposed structures would consume energy efficiently through the incorporation of such features as efficient water heating systems, high performance attics and walls, and high efficacy lighting. Required compliance with the CBSC would ensure that the building energy use associated with the project would not be wasteful, inefficient, or unnecessary. In addition, electricity supplied to the project by PG&E would comply with the State's Renewables Portfolio Standard, which requires investor-owned utilities, electric service providers, and community choice aggregators to increase procurement from eligible renewable energy resources to 33 percent of total procurement by 2020 and to 60 percent by 2030. Thus, a portion of the energy consumed during project operations would originate from renewable sources.

With regard to transportation energy use, the proposed project would comply with all applicable regulations associated with vehicle efficiency and fuel economy. In addition, as discussed in Section XVII, Transportation, of this IS/MND, the vehicle miles travelled (VMT) associated with development of the proposed project would be below the Citywide VMT Baseline.

Based on the above, compliance with the State's latest Energy Efficiency Standards would ensure that the proposed project would implement all necessary energy efficiency regulations. Additionally, the inclusion of solar panels and other sustainable features by the proposed project would further reduce impacts associated with energy consumption.

## Conclusion

Based on the above, construction and operation of the proposed project would not result in wasteful, inefficient, or unnecessary consumption of energy resources or conflict with or obstruct a State or local plan for renewable energy or energy efficiency, and ***a less-than-significant*** impact would occur.

| **VII. GEOLOGY AND SOILS.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Directly or indirectly cause 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 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? | ☐ | ☐ | ✖ | ☐ |
| c. Be located on a geologic unit 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 18-1B of the Uniform Building Code (1994), creating substantial direct or indirect 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? | ☐ | ☐ | ☐ | ✖ |
| f. Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature? | ☐ | ✖ | ☐ | ☐ |

## Discussion

ai-ii. According to the Preliminary Geotechnical Exploration prepared on May 6, 2021 by ENGEO for the proposed project (see Appendix C), although the project site is situated between two seismically active regions, the site is not located within an Alquist-Priolo Earthquake Fault Zone, and a review of geologic literature did not identify the presence of any known active or potentially active faults on the project site.[20] Based on the 2008 United States Geological Survey (USGS) National Seismic Hazard Maps, the nearest active fault to the project site is the Great Valley 7 fault located approximately 15.6 miles to the southwest. Other active faults located near the site include the Greenville fault, located approximately 24.4 miles to the southwest, the Mount Diablo Thrust fault, located approximately 35.25 miles to the northwest, the Ortigalita fault, located approximately 36 miles to the west, the Calaveras fault, located approximately 40.2 miles to the west, the Hayward Rodgers Creek fault, located approximately 43.2 miles to the west, and the San Andreas fault, located approximately 61.3 miles to the west. As such, many earthquakes of low magnitude occur every year throughout the region.

The proposed project would be properly designed in accordance with the CBSC. Projects designed in accordance with the CBSC should be able to: 1) resist minor earthquakes without damage; 2) resist moderate earthquakes without structural damage, but with some non-structural damage; and 3) resist major earthquakes without collapse, but with some structural, as well as non-structural, damage. Although conformance with the CBSC does

[20] ENGEO Incorporated. *Preliminary Geotechnical Exploration* [pg. 4]. May 6, 2021.

not guarantee that substantial structural damage would not occur in the event of a maximum magnitude earthquake, conformance with the CBSC can reasonably be assumed to ensure that the proposed structure would be survivable, allowing occupants to safely evacuate in the event of a major earthquake.

Furthermore, the General Plan EIR concluded that impacts related to ground shaking would be reduced to a less-than-significant level with implementation of the policies and implementation measures presented therein.[21] For instance, the following General Plan implementation measures would ensure that hazards related to seismic shaking do not occur:

- Measure S-I-1. All new development shall comply with the current Uniform Building Code (UBC) requirements that stipulate building structural material and reinforcement.
- Measure S-I-2. All new development shall comply with California Health and Safety Code Section 19100 et seq. (Earthquake Protection Law), which requires that buildings be designed to resist stresses produced by natural forces such as earthquakes and wind.

Based on the above, a ***less-than-significant*** impact would occur related to seismic surface rupture and strong seismic ground shaking.

aiii,aiv, c,d. The proposed project's potential effects related to liquefaction, subsidence, landslides, lateral spreading, and expansive soils are discussed in detail below.

## Liquefaction

Liquefaction is the loss of soil strength due to seismic forces generating various types of ground failure. Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded, fine-grained sand. The sand encountered in soil borings taken at the project site as part of the Preliminary Geotechnical Exploration was generally loose to medium dense and often contained a varying amount of fine-grained material.[22] In addition, groundwater was encountered at an approximate depth of 25 feet at the project site. As noted in the General Plan EIR, liquefaction could result in a significant impact within the City due to the relatively high water table that exists throughout Manteca. However, potential impacts related to liquefaction would be reduced to a less-than-significant level with implementation of the policies and implementation measures presented in the General Plan EIR.[23] For example, the following policies would ensure hazards related to liquefaction do not occur:

- Policy S-P-1. The City shall require preparation of geological reports and/or geological engineering reports for proposed new development located in areas of potentially significant geological hazards, including potential subsidence (collapsible surface soils) due to groundwater extraction.

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21 City of Manteca. *Manteca General Plan 2023 Environmental Impact Report (SCH# 2002042088)* [pg. 1-33]. October 6, 2003.

22 ENGEO Incorporated. *Preliminary Geotechnical Exploration* [pg. 7]. May 6, 2021.

23 City of Manteca. *Manteca General Plan 2023 Environmental Impact Report (SCH# 2002042088)* [pg. 8-13]. October 6, 2003.

- Policy S-P-2. The City shall require new development to mitigate the potential impacts of geologic hazards through Building Plan review.
- Policy S-P-3. requires that new development reduce any potential impacts of seismic-induced settlement of uncompacted fill and liquefaction (water-saturated soil) due to the presence of a high water table.

## Landslides

Seismically-induced landslides are triggered by earthquake ground shaking. The risk of landslide hazard is greatest in areas with steep, unstable slopes. The project site is relatively flat, with site topography ranging in elevation from approximately 52 feet above mean sea level (msl) to approximately 48 feet above msl. Therefore, the project site does not contain, and is not adjacent to, any steep slopes, and landslides are not likely to occur on- or off-site as a result of the proposed project.

## Lateral Spreading

Lateral spreading is horizontal/lateral ground movement of relatively flat-lying soil deposits towards a free face such as an excavation, channel, or open body of water; typically, lateral spreading is associated with liquefaction of one or more subsurface layers near the bottom of the exposed slope. The project site does not contain open faces within a distance that would be considered susceptible to lateral spreading. Therefore, the potential for lateral spreading to affect the site is low.

## Subsidence/Settlement

When subsurface earth materials move, the movement can cause the gradual settling or sudden sinking of ground. The phenomenon of settling or sinking ground is referred to as subsidence, or settlement. The General Plan EIR determined that, as part of the Soil Survey performed for the Planning Area, subsidence is not a characteristic of the soils within the City limits. Therefore, the potential for subsidence to affect the site is low.

## Expansive Soils

Expansive soils are soils which undergo significant volume change with changes in moisture content. Specifically, such soils shrink and harden when dried and expand and soften when wetted, potentially resulting in damage to building foundations. According to Figure 8-1, Location of Expansive Soils in the Study Area, of the General Plan EIR, the project site does not contain expansive soils. However, the Preliminary Geotechnical Exploration concluded that undocumented fill may be found in the vicinity of the existing stockpiles of native soil or burn piles, and within the agricultural access roads of the project site. Non-engineered fill can undergo excessive settlement, especially under new fill or building loads. Therefore, without the complete removal and recompaction of the existing fill, impacts related to subsidence and expansive soils could be significant.

## Conclusion

Based on the above discussion, the proposed project would not result in potential hazards or risks related to landslides, lateral spreading, or subsidence. However, impacts related to expansive soils may occur within the project site due to the potential for undocumented fill to occur within the project site. Additionally, while compliance with General Plan policies S-P-1 through S-P-3 would generally help ensure that potential impacts related to liquefaction would be reduced to a less-than-significant level, without mitigation that ensures compliance, the proposed project could directly or indirectly cause potential

substantial adverse effects, including the risk of loss, injury, or death involving liquefaction. Thus, a ***potentially significant*** impact could occur.

### Mitigation Measure(s)

Implementation of the following mitigation measures would reduce the above impact to a *less-than-significant* level.

*VII-1(a)* *Prior to issuance of any grading permits, a Design-Level Geotechnical Exploration and Assessment shall be performed to further discuss the topics presented in the Preliminary Geotechnical Report, and address the following items:*

- *Additional field exploration and laboratory testing to support design-level recommendations as needed.*
- *Design-level analyses related to geologic and geotechnical hazards.*
- *Seismic hazard analyses based on the current building code, including a detailed liquefaction analysis.*
- *Design-level earthwork, improvements, and construction recommendations.*

*The Design-Level Geotechnical Exploration and Assessment shall be submitted to the City of Manteca Development Services Department for review and approval.*

*VII-1(b)* *Prior to issuance of any grading permits, the project applicant shall be required to submit building plans to the City of Manteca Development Services Department for review and approval. The building plans shall demonstrate incorporation of all applicable recommendations and specifications included in the Preliminary Geotechnical Report prepared for the proposed project by ENGEO, as well as any additional recommendations included in the Design-Level Geotechnical Exploration and Assessment as required by Mitigation Measure VII-1(a). The building plans shall also comply with all applicable requirements of the most recent version of the California Building Standards Code. All on-site soil engineering activities shall be conducted under the supervision of a licensed geotechnical engineer or certified engineering geologist.*

b. Issues related to erosion are discussed in Section X, Hydrology and Water Quality, of this IS/MND. As noted therein, the proposed project would not result in substantial soil erosion or the loss of topsoil. Thus, a ***less-than-significant*** impact would occur.

e. The proposed project would connect to the existing City sanitary sewer lines located in the project vicinity. The construction or operation of septic tanks or other alternative wastewater disposal systems is not included as part of the project. Therefore, ***no impact*** regarding the capability of soil to adequately support the use of septic tanks or alternative wastewater disposal systems would occur.

f. The project is located on a site that is routinely disturbed and/or altered to maintain the cultivation of almond orchards. Additionally, known unique paleontological or geological

features do not exist on-site. However, the proposed project would require ground-disturbing actives. Therefore, while unlikely, if a unique paleontological resource or unique geologic feature were to be found during construction, a ***potentially significant*** impact could occur.

## Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above impact to a *less-than-significant* level.

*VII-2* *In the event that plant or animal fossils are discovered during subsurface excavation activities for the proposed project, all excavation within 50 feet of the fossil shall cease until a qualified paleontologist has determined the significance of the find and provides recommendations in accordance with Society of Vertebrate Paleontology standards. The City shall require that the applicant include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. The paleontologist shall notify the City of Manteca to determine procedures to be followed before construction is allowed to resume at the location of the find. If the find is determined to be significant and the City determines that avoidance is not feasible, the paleontologist shall design and implement a data recovery plan consistent with the Society of Vertebrate Paleontology standards. The plan shall be submitted to the City for review and approval. Upon approval, the plan shall be incorporated into the project.*

| **VIII. GREENHOUSE GAS EMISSIONS.** *Would the project:* | Potentially Significant Impact | Less Than Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| 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 gasses? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b. Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Implementation of the project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide ($CO_2$) and, to a lesser extent, other GHG pollutants, such as methane ($CH_4$) and nitrous oxide ($N_2O$) associated with area sources, mobile sources or vehicles, utilities (electricity), water usage, wastewater generation, and the generation of solid waste. The primary source of GHG emissions for the project would be mobile source emissions. The common unit of measurement for GHG is expressed in terms of annual metric tons of $CO_2$ equivalents ($MTCO_2e$/yr).

In September 2006, AB 32 was enacted, which requires that statewide GHG emissions be reduced to 1990 levels by the year 2020. AB 32 delegated the authority for implementation to the CARB and directs the CARB to enforce the statewide cap. In accordance with AB 32, CARB prepared the Climate Change Scoping Plan (Scoping Plan) for California, which was approved in 2008 and subsequently revised in 2014 and 2017. The 2017 revision to the Scoping Plan updated the plan in compliance with Senate Bill (SB) 32. SB 32 codified emissions reduction targets for the year 2030, which had previously been established by Executive Order B-30-15.

Per Section 15183.5 of the CEQA Guidelines, a project may satisfy applicable GHG analysis requirements under CEQA by demonstrating compliance with a qualified Climate Action Plan (CAP). Specifically, Section 15183.5 states the following:

> Lead agencies may analyze and mitigate the significant effects of greenhouse gas emissions at a programmatic level, such as in a general plan, a long range development plan, or a separate plan to reduce greenhouse gas emissions. Later Project-specific environmental documents may tier from and/or incorporate by reference that existing programmatic review. Project-specific environmental documents may rely on an EIR containing a programmatic analysis of greenhouse gas emissions as provided in section 15152 (tiering), 15167 (staged EIRs) 15168 (program EIRs), 15175-15179.5 (Master EIRs), 15182 (EIRs Prepared for Specific

Plans), and 15183 (EIRs Prepared for General Plans, Community Plans, or Zoning).

On October 15, 2013, the City of Manteca adopted a qualified CAP, which is intended to support the goals of AB 32 and SB 32. The CAP is designed to reduce community-related and City operations-related GHG emissions to a degree that would not hinder or delay implementation of AB 32. In order to do such, the City has outlined a course of action for the City government and the community of Manteca to reduce per capita GHG emissions. Projects showing consistency with the CAP would be considered not to contribute significant GHG emissions impacts.

For new development projects constructed in the City of Manteca, the CAP requires the development projects to achieve GHG emissions reductions by implementing specific reduction strategies. The City of Manteca CAP is consistent with the goals presented in AB 32 and SB 32 and, therefore, projects considered consistent with the CAP would be considered to result in a less-than-significant impact related to GHG emissions. The proposed project's consistency with the reduction strategies in the CAP is assessed in Table 6 below.

**Table 6**
**City of Manteca CAP Consistency**

| CAP Strategy | Consistency Discussion |
|---|---|
| Comply with the applicable land use, sustainable development, and resource conservation policies of the Manteca General Plan. | As discussed throughout this IS/MND, the proposed project would require the approval of a General Plan Amendment to designate the site as LDR, MDR, and P. However, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. In addition, the project would be required to comply with all applicable General Plan policies. Therefore, the proposed project would comply with this measure. |
| Construct project transportation infrastructure that supports walking, bicycling, and transit use. | All interior roadways included as part of the proposed project would provide pedestrian and bicycle infrastructure. In addition, the proposed project would include construction of an eight-foot meandering sidewalk, and a five-foot bike lane along Austin Road. As such, the proposed project would comply with this measure. |
| Implement Transportation Demand Management (TDM) programs in projects with large numbers of employees. | According to the CAP, the SJVAPCD has adopted Rule 9410, Employer Based Trip Reduction, which requires employers with over 100 employees to implement trip reduction programs. Considering the proposed single-family housing development would not involve the employment of 100 or more employees, this measure does not apply to the proposed project. |
| Design and construct project buildings to exceed Title 24 Energy Efficiency Standards by at least 10 percent. | The proposed project would be designed to comply with all applicable provisions of the 2019 CBSC, including the 2019 Title 24 Energy Efficiency Standards, and would provide on-site generation of |

*(Continued on next page)*

**Table 6**
**City of Manteca CAP Consistency**

| CAP Strategy | Consistency Discussion |
|---|---|
| | renewable energy. Compliance with the 2019 CBSC has been shown to reduce energy consumption in single-family homes by 53 percent in comparison to buildings constructed under the 2016 Title 24 standards. Considering the City's CAP was prepared in 2013, and the proposed project would comply with the 2019 CBSC, the project would exceed the Title 24 Energy Efficiency Standards which are referenced in the CAP by at least 53 percent. As such, the project would comply with the reduction measure. |
| Implement project buildings including water conservation measures that meet or exceed the California Green Building Code standards 20 percent requirement. | The proposed project would be required to meet the water efficiency regulations within the CALGreen Code. As such, the proposed project would comply with this measure. |
| Install project landscaping that meets or exceeds water conservation standards of the City's adopted landscaping ordinance 20 percent reduction requirement. | Landscaping within the project site would be required to comply with the CALGreen Code and all water efficiency measures therein, including the MWELO. In addition, the project would be required to comply with the adopted water conservation standards set forth in Chapter 17.48 of the City's Municipal Code. As such, the proposed project would comply with this measure. |
| Develop programs to exceed state recycling and diversion targets by at least 10 percent. | Pursuant to Municipal Code Section 13.02.120, all construction materials associated with the proposed project shall be recycled. The City of Manteca offers a free commercial recycling pickup service which would be available to the proposed project during operations. As such, the project would be able to comply with this measure. |

***Source: City of Manteca. Climate Action Plan. October 15, 2013.***

As noted previously, the City's CAP was established to ensure the City's compliance with the statewide GHG reduction goals required by AB 32 and SB 32. As demonstrated in the table above, the proposed project would not conflict with the City's CAP. As such, the proposed project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and a ***less-than-significant*** impact would occur.

| **IX. HAZARDS AND HAZARDOUS MATERIALS.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| 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 likely 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? | ☐ | ☐ | ☐ | ✖ |
| 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 or excessive noise for people residing or working in the project area? | ☐ | ☐ | ☐ | ✖ |
| f. Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ✖ | ☐ |
| g. Expose people or structures, either directly or indirectly, to the risk of loss, injury or death involving wildland fires? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. Residential developments are not typically associated with the routine transport, use, disposal, or generation of substantial amounts of hazardous materials. On-site maintenance may involve the use of common household cleaning products, fertilizers, and herbicides, any of which could contain potentially hazardous chemicals; however, such products would be expected to be used in accordance with label instructions. Due to the regulations governing use of such products and the amount anticipated to be used on the site, routine use of such products would not represent a substantial risk to public health or the environment. Therefore, the project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and a ***less-than-significant*** impact would occur.

b. The proposed project's potential effects related to the likely release of hazardous materials through existing site conditions, construction activities, and operations are discussed in detail below. The following discussion is based primarily on a Modified Phase I Environmental Site Assessment (ESA) prepared on May 6, 2021 by ENGEO for the proposed project (Appendix D).[24]

### Existing Project Site Conditions

The objective of the modified Phase I ESA was to provide an evaluation of current and historical use of the project site to assess whether such use has, or is expected to, result in environmental degradation of the site, or Recognized Environmental Conditions (RECs)

[24] Geocon Consultants, Inc. *Phase I and Limited Phase II Environmental Site Assessment*. November 2018.

as defined by the American Society for Testing and Materials (ASTM) Standard. The ASTM Standard E1527-05 defines RECs as the presence or likely presence of hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property.

As part of the Phase I ESA, a site reconnaissance was conducted on April 7, 2021. The project site was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The project site was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or preexisting underground storage tanks. The results of the site reconnaissance indicated that the project site does not contain any RECs.

As noted previously, the project site is currently in use as an almond orchard. A review of historical sources regarding the project site, including aerial photographs, building department records, and street directory information indicated that the project site has been used as agricultural land since at least 1937. Therefore, soil samples were collected on April 7, 2021, from 100 locations across the project site to test for RECs within the soils. Soil samples were collected from zero to six inches below the surface of the existing grade. The samples were composited by a laboratory into 25 four-point composite samples, and were analyzed for organochlorine pesticides (OCPs). Additionally, 25 discrete samples were analyzed for total lead and arsenic. The results of the soil samples indicated that none of the samples exhibited detectable concentration of OCPs or arsenic. Additionally, lead concentrations within the samples ranged from 2.6 to 13 milligrams per kilogram (mg/kg), which is well below the current residential screening level of 80 mg/kg.

Based on the above, the proposed project would not 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 due to the project site's current and historic agricultural use, and a less-than-significant impact related to such would occur.

## Construction and Operation Activities

Construction activities associated with the proposed project would involve the use of heavy equipment, which would contain fuels and oils, and various other products such as concrete, paints, and adhesives. Small quantities of potentially toxic substances (e.g., petroleum and other chemicals used to operate and maintain construction equipment) would be used at the project site and transported to and from the site during construction. However, the contractor would be required to comply with all California Health and Safety Codes and local City ordinances regulating the handling, storage, and transportation of hazardous and toxic materials. Pursuant to California Health and Safety Code Section 25510(a), except as provided in subdivision (b), the handler or an employee, authorized representative, agent, or designee of a handler, shall, upon discovery, immediately report any release or threatened release of a hazardous material to the unified program agency (in the case of the proposed project, the San Joaquin County Environmental Health Department) in accordance with the regulations. The handler or an employee, authorized representative, agent, or designee of the handler shall provide all State, city, or county fire or public health or safety personnel and emergency response personnel with access to the handler's facilities. In the case of this project, the contractor is required to notify the

San Joaquin County Environmental Health Department in the event of an accidental release of a hazardous material, who would then monitor the conditions and recommend appropriate remediation measures.

During project operation, hazardous materials use would be limited to landscaping products such as fertilizer and pesticides/herbicides. Such chemicals would be used in limited quantities according to label instructions.

Based on the above, the proposed project would not 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 during construction or operation of the proposed project, and a less-than-significant impact related to such would occur.

### Conclusion

Known hazardous materials have not been identified on the project site. In addition, construction activities would be required to adhere to all relevant guidelines and ordinances regulating the handling, storage, and transportation of hazardous materials. Thus, the proposed project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the likely release of hazardous materials into the environment, and a ***less-than-significant*** impact would occur.

c. The nearest school, Calla High School, is located approximately 0.5-mile northeast of the project site. In addition, as discussed above, hazardous materials would not be emitted during construction or operation of the project. Therefore, the proposed project would result in ***no impact*** related to hazardous emissions or the handling of hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school.

d. According to the Department of Toxic Substances Control, the project site is not located on a site that is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5.[25] Thus, the proposed project would not create a significant hazard to the public or the environment, and ***no impact*** would occur.

e. The nearest airport to the project site is the Stockton Metropolitan Airport, which is located approximately 9.5 miles north of the project site. As such, the project site is not located within two miles of any public airports or private airstrips, and does not fall within an airport land use plan area. Therefore, ***no impact*** related to a safety hazard for people residing or working in the project area related to such would occur.

f. In April 2019, the San Joaquin County Board of Supervisors adopted an Emergency Operations Plan (EOP).[26] The primary purpose of the EOP is to outline the County's all-hazard approach to emergency operations to protect the safety, health, and welfare of its citizens throughout all emergency management mission areas. Per the City's General Plan, the project site is currently designated as LDR, MDR, HDR, BIP, and P, and the project site is zoned MP. The proposed project would require the approval of a General

[25] Department of Toxic Substances Control. *Hazardous Waste and Substances Site List (Cortese).* Available at: https://www.envirostor.dtsc.ca.gov/public/. Accessed September 2021.

[26] San Joaquin County. *County of San Joaquin Emergency Operations Plan*. April 23, 2019.

Plan Amendment to designate the site as LDR, MDR, and P. However, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City, and the proposed project would not physically interfere with the EOP. Specifically, the effects on emergency evacuation associated with development of the site has been anticipated by the City and analyzed in the General Plan EIR. The General Plan EIR concluded that, with implementation of General Plan policies, buildout of the City, including the project site, would result in a less-than-significant impact related to conflicting with evacuation routes in the event of an emergency. Thus, the proposed project would not impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and a ***less-than-significant*** impact would occur.

g. Issues related to wildfire hazards are discussed in Section XX, Wildfire, of this Initial Study. As noted therein, the project site is not located within a Very High Fire Hazard Severity Zone (VHFHSZ).[27] In addition, the project site is located within an urbanized area of the City of Manteca and is bordered by existing development and agricultural land. The developed nature of the area surrounding the project site precludes the spread of wildfire to the site. Thus, the potential for wildland fires to reach the project site would be relatively limited. The proposed project would not expose people or structures to the risk of loss, injury or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands, and a ***less-than-significant*** impact would occur.

[27] California Department of Forestry and Fire Protection. *Fire Hazard Severity Zone Viewer*. Available at: https://egis.fire.ca.gov/FHSZ/. Accessed September 2021.

| **X. 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 or otherwise substantially degrade surface or ground water quality? | ☐ | ☐ | ✖ | ☐ |
| b. Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin? | ☐ | ☐ | ✖ | ☐ |
| c. Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would: | | | | |
| i. Result in substantial erosion or siltation on- or off-site; | ☐ | ☐ | ✖ | ☐ |
| ii. Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite; | ☐ | ☐ | ✖ | ☐ |
| iii. Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or | ☐ | ☐ | ✖ | ☐ |
| iv. Impede or redirect flood flows? | ☐ | ☐ | ✖ | ☐ |
| d. In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation? | ☐ | ☐ | ☐ | ✖ |
| e. Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. The following discussion provides a summary of the proposed project's potential to violate water quality standards/waste discharge requirements or otherwise degrade water quality during construction and operation.

### Construction

During the early stages of project construction activities, topsoil would be exposed due to grading, trenching for utilities, and other standard ground-disturbing activities. After grading and prior to overlaying the ground surface with impervious surfaces and structures, the potential exists for wind and water erosion to discharge sediment and/or urban pollutants into stormwater runoff, which could adversely affect water quality downstream.

The California State Water Resources Control Board (SWRCB) regulates stormwater discharges associated with construction activities where clearing, grading, or excavation results in a land disturbance of one or more acres. The City's National Pollutant Discharge Elimination System (NPDES) permit requires applicants to show proof of coverage under the State's General Construction Permit prior to receipt of any construction permits. The State's General Construction Permit requires that subject projects must file a Notice of Intent with the SWRCB and develop a site-specific Storm Water Pollution Prevention Plan (SWPPP). A SWPPP describes Best Management Practices (BMPs) to control or minimize pollutants from entering stormwater and must address both grading/erosion

impacts and non-point source pollution impacts of the development project. BMPs include, but are not limited to, tracking controls, perimeter sediment controls, drain inlet protection, wind erosion/dust controls, and waste management control. Because the proposed project would disturb greater than one acre of land, the project would be subject to the requirements of the State's General Construction Permit.

### Operation

The proposed residences would not involve operations typically associated with the generation or discharge of polluted water. Thus, typical operations on the project site would not violate any water quality standards or waste discharge requirements, nor degrade water quality. However, the addition of the impervious surfaces on the site would result in the generation of urban runoff, which could contain pollutants if the runoff comes into contact with vehicle fluids on parking surfaces and/or landscape fertilizers and herbicides.

A new storm drainage system, including a drainage collection system, storm drain pump stations, and detention basins would be constructed as part of the proposed project. It should be noted that the locations of the proposed detention basins are conceptual and will be finalized during the design of Improvement Plans. The proposed on-site storm drainage pump station and force main would extend within the internal roadway network of the project site, and would connect to a proposed storm drainage system along Austin Road. Storm drain lines would be constructed along the entire Austin Road project frontage, and would extend south of the project frontage along Austin Road for approximately 2,000 linear feet. All stormwater associated with the site would be treated on-site prior to entering the City's system through the use of Low Impact Development (LID) features such as the detention basins and landscaped areas on-site. Furthermore, the proposed project would be designed in accordance with requirements established by the City's NPDES Phase II MS4 stormwater permit. Therefore, during operation, the proposed project would comply with all relevant water quality standards and waste discharge requirements, and would not degrade water quality.

### Conclusion

Based on the above, the proposed project would not include land uses typically associated with the generation or discharge of polluted water, and would be designed to adequately treat stormwater runoff from the site prior to discharge. In addition, compliance with the required SWPPP would ensure that water quality impacts do not occur during construction. Therefore, a ***less-than-significant*** impact related to water quality and waste discharge requirements could occur.

b,e. The City of Manteca is located in the Eastern San Joaquin County Groundwater Basin (ESJCGB), which is a subbasin of the San Joaquin Valley Groundwater Basin. The Department of Water Resources has classified the ESJCGB as a basin in a critical condition of overdraft. Groundwater overdraft in the ESJCGB and the City's groundwater withdrawal rate is of vital concern to the City as this poses a long-term risk to the reliability of the groundwater supply. According to the City's Urban Water Management Plan (UWMP), in order to reduce dependence on groundwater and ensure sustainable yields, the City's goal is to achieve a 53 percent to 47 percent annual balance of surface water to groundwater, respectively. The combined use of surface water, drawn from the Stanislaus River, and groundwater by the City is intended to reduce the groundwater withdrawal to the established sustainable yield of one acre-foot per year per acre (AFY/ac). The resulting

reduction in groundwater withdrawal has stabilized groundwater levels in the Manteca area.[28] As buildout of the General Plan continues over time, groundwater pumped would remain limited to the safe yield of one AFY/ac, and projected future water demands will be met by a combination of groundwater, imported water, and recycled water.

The proposed project would generate an increase in water demand. However, such demand would be met through a combination of the aforementioned water sources. Development of the project site would not result in an increase in groundwater pumping because the City cannot exceed the sustainable groundwater pumping yield. A Water Supply Assessment was prepared for the proposed project, and is discussed further in the Utilities and Service Systems section of this IS/MND.

In addition, the project site constitutes a relatively small area compared to the size of the groundwater basin and, thus, does not constitute a substantial source of groundwater recharge. The project would allow for some continued infiltration through the proposed bioretention basins, on-site park areas, and unpaved/landscaped areas of the site. Therefore, the proposed project would not substantially interfere with groundwater recharge.

Given that the project site's existing zoning assumes the proposed project would be developed with both residential and commercial uses, groundwater use associated with development of the project site has been generally anticipated by the City and accounted for in regional planning efforts, including the projections included in the City's UWMP. Therefore, the proposed project would not substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin, and a ***less-than-significant*** impact would occur.

ci-iii. Development of the proposed project would result in an increase in impervious surfaces on the project site, which would alter the existing drainage pattern of the site. However, as noted above, a new storm drainage system, including a drainage collection system, storm drain pump stations, and detention basins would be constructed as part of the proposed project. While the locations of the proposed detention basins are conceptual and will be finalized during the design of Improvement Plans, the stormwater system has been designed according to the *2015 Post-Construction Stormwater Standards Manual*, and the dimensions would adequately treat the associated drainage management area. In addition, per Section 17.48.040(I), Stormwater Management, of the City's Municipal Code, projects shall implement stormwater best management practices into landscape design plans to minimize runoff and increase retention and infiltration.

In conclusion, the proposed project would not substantially alter the existing drainage pattern of the site or area in a manner which would result in erosion, siltation, or flooding on- or off-site, create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems, or provide substantial additional sources of polluted runoff. Consequently, implementation of the proposed project would result in a ***less-than-significant*** impact.

civ. According to Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) number 06077C0645F, the project site lies within Flood Zone X, which is

[28] City of Manteca. *City of Manteca 2015 Urban Water Management Plan*. July 2016.

defined as areas of minimal flood hazard.[29] As such, the proposed project would not impede or redirect flood flows, and a ***less-than-significant*** impact would result.

d. Impacts related to development within a flood hazard zone are discussed under Question 'civ', above. Tsunamis are defined as sea waves created by undersea fault movement, whereas a seiche is a long-wavelength, large-scale wave action set up in a closed body of water such as a lake or reservoir. The project site is not located within the vicinity of an ocean or a large closed body of water. Thus, the project site would not be exposed to flooding risks associated with tsunamis or seiches, and ***no impact*** would occur.

[29] FEMA. *FEMA Flood Map Service Center.* Available at: https://msc.fema.gov/portal/home. Accessed April 2022.

| **XI. LAND USE AND PLANNING.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Physically divide an established community? | ☐ | ☐ | ✖ | ☐ |
| b. Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. A project risks dividing an established community if the project would introduce infrastructure or alter land use so as to change the land use conditions in the surrounding community, or isolate an existing land use. The project site is currently in use as an almond orchard, and is bordered by SR 99 and industrial buildings to the west, commercial businesses to the northwest, Austin Road, scattered single-family residences, and agricultural land to the east, a mobile home park and a trucking facility to the north, and agricultural land to the south. Overall, the project would not alter the general development trends in the area nor isolate an existing land use, and impacts related to physically dividing an established community would be ***less than significant***.

b. Per the City's General Plan, the project site is designated as LDR, MDR, HDR, BIP, and P, and the project site is zoned MP. The proposed project would require the approval of a General Plan Amendment to designate the site as LDR, MDR, and P. A Master Plan Amendment would also be required to match these land use designations However, because the previous land use designation and zoning designation anticipated residential uses, the project is consistent with prior planned uses, the impacts have already been generally anticipated by the City.

As discussed throughout this IS/MND, the proposed project would not result in any significant environmental effects that cannot be mitigated to a less-than-significant level by the mitigation measures provided herein. The proposed project would not conflict with City policies and regulations adopted for the purpose of avoiding or mitigating an environmental effect, including, but not limited to, City policies and guidelines related to the City's noise standards and all applicable State regulations related to stormwater. Additionally, as discussed in Section IV, Biological Resources, the proposed project would comply with Section 12.08.070, Tree Trimming or Removal, and would mitigate for any potential impacts to Swainson's hawk and other nesting birds and raptors. Therefore, the proposed project would not cause a significant environmental impact in excess of what has already been analyzed and anticipated in the General Plan EIR, and would not conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental impact. Thus, a ***less-than-significant*** impact would occur.

| **XII. MINERAL RESOURCES.** *Would the project:* | | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|---|
| 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? | ☐ | ☐ | ☐ | ✖ |

## Discussion

a,b. According to the Manteca 2023 General Plan EIR, the nearest identified Significant Mineral Resource Zone is located more than five miles west of the project site.[30] As such, the project site is not located in an area of known mineral resources. Therefore, implementation of the proposed project would not 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 or result in the loss of availability of a locally-important mineral resource recovery site delineated in the City's General Plan. As such, ***no impact*** to mineral resources would occur.

[30] City of Manteca. *Manteca General Plan 2023 Environmental Impact Report (SCH# 2002042088)* [pg. 1-7]. October 6, 2003.

| **XIII. NOISE.** *Would the project result in:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies? | ☐ | ☐ | ✖ | ☐ |
| b. Generation of excessive groundborne vibration or groundborne noise levels? | ☐ | ☐ | ✖ | ☐ |
| c. For a project located within the vicinity of a private airstrip or 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? | ☐ | ☐ | ☐ | ✖ |

## Discussion

The following discussion is based primarily on an Environmental Noise Assessment[31] and Alternative Site Plan Memo[32] prepared for the proposed project by Saxelby Acoustics LLC (see Appendix F). The following terms are referenced in the sections below:

- Decibel (dB): A unit of sound energy intensity. An A-weighted dB (dBA) is a dB corrected for the variation in frequency response to the typical human ear at commonly encountered noise levels. All references to dB in this section will be A-weighted unless noted otherwise.
- Day-Night Average Level ($L_{dn}$): The average sound level over a 24-hour day, with a +10 dB weighing applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours.
- Equivalent Sound Level ($L_{eq}$): The average sound level over a given time-period.
- Maximum Sound Level ($L_{max}$): The maximum sound level over a given time-period.
- Median Sound Level ($L_{50}$): The sound level exceeded 50 percent of the time over a given time-period.

a. Some land uses are considered more sensitive to noise than others, and, thus, are referred to as sensitive noise receptors. Land uses often associated with sensitive noise receptors generally include residences, schools, libraries, hospitals, and passive recreational areas. Noise sensitive land uses are typically given special attention in order to achieve protection from excessive noise. The nearest sensitive receptors to the project site are the mobile homes located approximately 35 feet north of the project site.

### City Noise Standards

Section 17.58.050(D) of the Manteca Municipal Code exempts noise sources associated with construction activities when constructed as part of an approved building permit, except as prohibited in Section 17.58.050(E)(1), which prohibits construction noise daily between the hours of 7:00 PM and 7:00 AM. In addition, Municipal Code Section 9.52.040 prohibits the use of any construction equipment between the hours of 8:00 PM and 7:00 AM.

The City of Manteca Noise Element establishes standards for daytime and nighttime noise levels. The standards are reproduced in Table 7. The City of Manteca does not currently

[31] Saxelby Acoustics LLC. *Environmental Noise Assessment Yosemite Square Residential*. March 14, 2022.
[32] Saxelby Acoustics LLC. *Yosemite Square Residential Alternative Site Plan*. May 2, 2022.

have a policy for assessing noise impacts associated with increases in ambient noise levels from project-generated noise sources. As a result, the noise criteria developed by the Federal Interagency Commission on Noise (FICON) was applied to the project, as is the industry standard. Table 8 presents the FICON's significance thresholds that are used for analyzing changes in cumulative noise levels.

**Table 7**
**Performance Standards for Stationary Noise Sources[1,2]**

| Noise Level Descriptor | Daytime (7 AM to 10 PM) | Nighttime (10 PM to 7 AM) |
|---|---|---|
| Hourly $L_{eq}$, dB | 50 | 45 |
| Maximum Level, dB | 70 | 65 |

[1] Each of the noise levels specified above should be lowered by 5 dB for simple noise tones, noises consisting of primarily speech or music, or recurring impulsive noises. Such noises are generally considered by residents to be particularly annoying and are a primary source of noise complaints.
[2] No standards have been included for interior noise levels. Standard construction practices should, with the exterior noise levels identified, result in acceptable interior noise levels.

***Source: City of Manteca General Plan 2023, Noise Element, Table 9-2.***

**Table 8**
**Significance of Changes in Cumulative Noise Exposure**

| Ambient Noise Level Without Project | Increase Required for Significant Impact |
|---|---|
| < 60 dB | 5.0 dB, or greater |
| 60 to 65 dB | 3.0 dB, or greater |
| > 65 dB | 1.5 dB, or greater |

***Source: Federal Interagency Committee on Noise (FICON).***

## Existing Noise Environment

The existing noise environment in the project area is primarily defined by traffic noise from SR 99 and Austin Road. Secondary noise sources include the trucking facility to the northeast of the project site. To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted a continuous (24-hour) noise level measurement at three locations on the project site. Noise measurement locations are shown on Figure 8. A summary of the noise level measurement survey results is provided in Table 9.

**Table 9**
**Summary of Long-Term Noise Survey Measurement Results**

| Site Description | Date | $L_{dn}$ | Average Measured Hourly Noise Levels, dBA | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Daytime[1] | | | Nighttime[2] | | |
| | | | $L_{eq}$ | $L_{50}$ | $L_{max}$ | $L_{eq}$ | $L_{50}$ | $L_{max}$ |
| LT-1: Truck Yard | 2/9/22 | 68 | 60 | 59 | 70 | 62 | 60 | 69 |
| LT-2: 120 feet to Centerline of SR 99 | | 79 | 75 | 74 | 92 | 72 | 69 | 87 |
| LT-3: 35 feet to Centerline of Austin Road | | 71 | 68 | 60 | 84 | 64 | 58 | 84 |

[1] Daytime hours: 7:00 AM to 10:00 PM.
[2] Nighttime hours: 10:00 PM to 7:00 AM.
***Source: Saxelby Acoustics, 2022.***

**Figure 8**
**Noise Level Measurement Locations**

## Project Construction Noise

During the construction of the proposed project, heavy equipment would be used for grading, excavation, paving, and building construction, which could result in temporary noise level increases at nearby sensitive receptors. Noise levels would vary depending on the type of equipment used, how the equipment is operated, and how well the equipment is maintained.

In addition, noise exposure at any single point outside the project site would vary depending on the proximity of construction activities to that point. Standard construction equipment, such as backhoes, loaders, and trucks, would be used on-site.

Table 10 shows maximum noise levels associated with typical construction equipment. Based on the table, activities involved in typical construction would generate maximum noise levels up to 90 dB at a distance of 50 feet. As one increases the distance between equipment, or increases separation of areas with simultaneous construction activity, dispersion and distance attenuation reduce the effects of combining separate noise sources. The noise levels from a source decrease at a rate of approximately 6 dB per every doubling of distance from the noise source.

**Table 10**
**Construction Equipment Noise**

| Type of Equipment | Maximum Level, dB at 50 feet |
|---|---|
| Auger Drill | 84 |
| Backhoe | 78 |
| Compactor | 83 |
| Compressor (air) | 78 |
| Concrete Saw | 90 |
| Dozer | 82 |
| Dump Truck | 76 |
| Excavator | 81 |
| Generator | 81 |
| Jackhammer | 89 |
| Pneumatic Tools | 85 |

***Source: Federal Highway Administration, Roadway Construction Noise Model User's Guide, January 2006.***

Noise would also be generated during the construction phase by increased truck traffic on area roadways associated with the transport of heavy materials and equipment to and from the project site. However, a construction traffic noise increase would be of short duration and would likely occur primarily during daytime hours.

As noted above, construction activities are exempt from the City's Noise Ordinance during allowable hours. Considering project construction activities would be required to comply with the City's regulations, construction activities would be exempt from the General Plan noise level limits. As a result, a less-than-significant impact would occur related to creation of a substantial temporary or periodic increase in ambient noise levels in the project vicinity due to construction.

## Operational Noise

Noise generated during operations of the proposed project would be limited to residential noise and traffic noise, as discussed in further detail below.

### Residential Noise

Operation of the proposed project would include typical residential noise which would be compatible with the adjacent existing residential uses. The proposed project is not anticipated to contribute a measurable operational noise level increase to the existing ambient noise environment at any sensitive receptor locations. Therefore, a less-than-significant impact would occur with regard to on-site operational noise.

### Traffic Noise

As compared to the previously approved conditions for the project site, the proposed General Plan Amendment would result in an approximately 40 percent lower trip generation than the existing land use designations of the project site. Therefore, relative to the existing land uses, traffic operations would be similar to or improved with the proposed project. Therefore, off-site traffic noise was not considered further in the Environmental Noise Assessment prepared for the proposed project by Saxelby Acoustics LLC.

## Noise Impacts at On-Site Receptors

Impacts of the environment on a project (as opposed to impacts of a project on the environment) are beyond the scope of required CEQA review. "[T]he purpose of an EIR is to identify the significant effects of a project on the environment, not the significant effects of the environment on the project." (*Ballona Wetlands Land Trust v. City of Los Angeles,* (2011) 201 Cal.App.4th 455, 473 (*Ballona*).) Nonetheless, the following sections regarding off-site transportation and stationary noise effects on on-site future residents is provided for informational purposes.

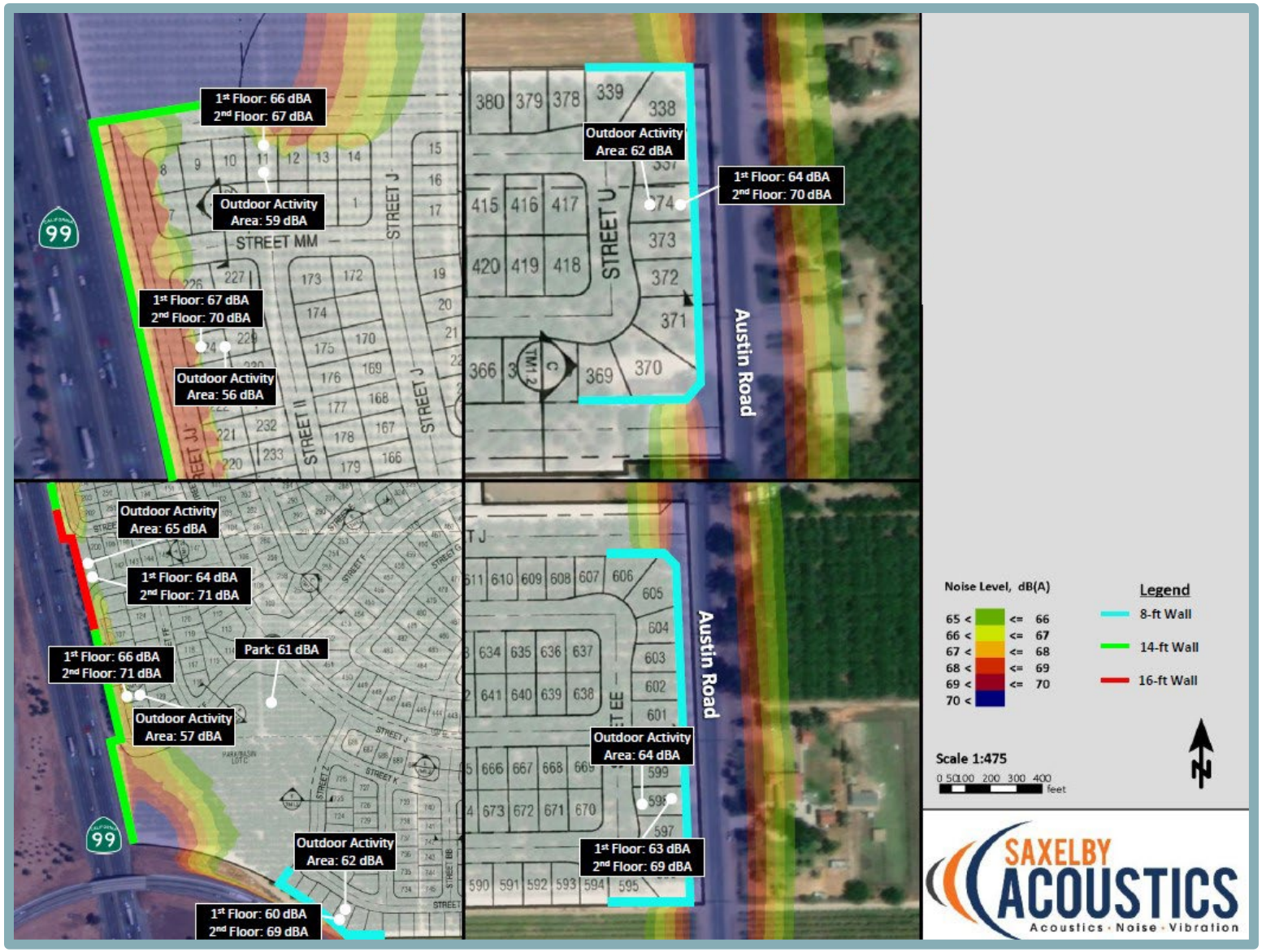
### Exterior Traffic Noise Impacts

To assess transportation noise on the project site, field-collected noise level data for SR 99 and Austin Road was used. A noise level of 79 dBA $L_{dn}$ was measured at a location 120 feet from the centerline of SR 99, and a level of 71 dBA was measured at a distance of 35 feet from the centerline of Austin Road. The noise level along each of the roadways is expected to increase by +1.0 dBA based upon an assumed one percent increase in traffic volumes per year. The proposed residential uses are located approximately 175 feet from the centerline of SR 99 and 70 feet from the centerline of Austin Road. At the aforementioned distances, the proposed residential uses would be exposed to noise levels in excess of the City of Manteca exterior noise level standard of 60 dBA $L_{dn}$. Therefore, noise control barriers as shown in Figure 9 would be required to reduce traffic noise to acceptable levels.

As such, the City would condition the proposed project to include the following noise control measures to achieve an adequate noise level reduction:

- Sound walls ranging in height from 14 feet to 16 feet shall be required to reduce transportation noise levels emanating from SR 99.
- Eight-foot-tall sound walls shall be required along Austin Road and the freeway ramp at the southwest corner of the project site.

**Figure 9**
**Traffic Noise Barrier Locations**



It should be noted that the City of Manteca allows the exterior noise level standard to be raised to 65 dBA $L_{dn}$ where a reduction in noise levels to below 60 dBA $L_{dn}$ using a practical application of best noise-reduction technology is not possible. Implementation of sound walls described above would reduce noise levels at outdoor activity areas on the project site to 65 dBA $L_{dn}$ or lower.

## Interior Traffic Noise Impacts

Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 70 dBA $L_{dn}$, or less, additional interior noise control measures are not typically required. For the proposed project, exterior noise levels are predicted to be less than 65 dBA $L_{dn}$ at first floor locations and up to 71 dBA $L_{dn}$ at second floor locations, which would result in interior noise levels of less than 40 dBA $L_{dn}$ at first floor receivers and 46 dBA at second floor receivers based on typical building construction.

As such, the interior noise levels at the second-floor locations of the proposed residential uses would exceed with the City of Manteca General Plan Policy 12-P-6, which requires incorporation of mitigation measures where transportation noise levels exceed 65 dBA $L_{dn}$ to ensure that interior noise levels do not exceed 45 dB $L_{dn}$.

Based upon the exterior transportation noise levels along SR 99 of 71 dBA $L_{dn}$, an exterior-to-interior noise level reduction of 26 dBA would be required to meet the City of Manteca standards. As such, the City would condition the proposed project to include the following noise control measures to achieve an adequate noise level reduction:

- Building facades shall include use of stucco with exterior sheathing and a resilient channel for hanging interior gypsum board;
- STC 34 minimum rated glazing shall be used;
- Interior gypsum wallboards and gypsum ceiling shall be 5/8-inch;
- Mechanical ventilation penetrations for exhaust fans shall not face toward SR 99. Where feasible, vents should be routed towards the opposite side of the building to minimize sound intrusion to sensitive areas of the buildings;
- Where vents must face toward SR 99, the duct work be shall be increased in length and make as many “S” turns as feasible prior to exiting the dwelling, which separates the openings between the noise source and the living space with a long circuitous route. Flexible duct work is preferred ducting for this noise mitigation. Where the vent exits the building, a spring-loaded flap with a gasket should be installed to reduce sound entering the duct work when the vent is not in use;
- Mechanical ventilation shall be provided to allow occupants to keep doors and windows closed for acoustic isolation; and/or
- In lieu of the aforementioned measures, an interior noise control report may be prepared by a qualified acoustic engineer demonstrating that the proposed building construction would achieve the interior noise reduction requirement of 26 dBA.

## Stationary Noise Impacts

The stationary noise environment in the project vicinity is primarily defined by the trucking facility to the northeast of the project site. Noise level data was collected at the noise measurement site LT-1 to analyze truck noise. Although the ambient noise environment at the trucking facility was primarily driven by traffic on SR 99, the trucking facility was

determined to generate average noise levels of 53 dBA $L_{eq}$ at the proposed residential uses in a busy hour. The trucking facility may operate at this level of activity during both daytime (7:00 AM to 10:00 PM) and nighttime (10:00 PM to 7:00 AM) hours. As such, noise levels generated by the trucking facility could exceed the City of Manteca daytime standard of 50 dBA $L_{eq}$ and nighttime standard of 45 dBA $L_{eq}$.

It should be noted that the maximum noise levels generated by a truck parking use would not exceed the average ($L_{eq}$) noise levels by more than 20 dBA. The City of Manteca daytime and nighttime maximum noise level standards are 20 dBA higher than the average ($L_{eq}$) standards. Therefore, where the proposed project complies with the average noise level standards, the project also complies with the maximum noise level standards.

While unmitigated noise levels generated by the trucking facility would exceed City standards, the Environmental Noise Assessment concluded that noise levels emanating from the truck yard could be reduced to acceptable levels on the project site through the use of eight-foot-tall and 10-foot-tall sound wall segments, as shown in Figure 10.

## Conclusion

Based on the above, existing sensitive receptors would not experience project-related noise levels in excess of the City's applicable noise level standards. Thus, a ***less-than-significant*** impact would occur related to generation of a substantial permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies. However, it should be noted that while not a CEQA issue, the preparation of a final acoustic analysis is recommended at the time of improvement plans to ensure that the appropriate noise control measures have been incorporated into the proposed project to achieve the exterior and interior noise standards of the City of Manteca on-site.

Table 11 includes a comprehensive list of all noise-related conditions of approval for the proposed project that would be required by the City.

b. Similar to noise, vibration involves a source, a transmission path, and a receiver. However, noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to the vibration depends on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system which is vibrating.

Vibration is measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of peak particle velocities (PPV) in inches per second (in/sec). Standards pertaining to perception, as well as damage to structures, have been developed for vibration levels defined in terms of PPV. Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events.

**Figure 10**
**Stationary Noise Barrier Locations**

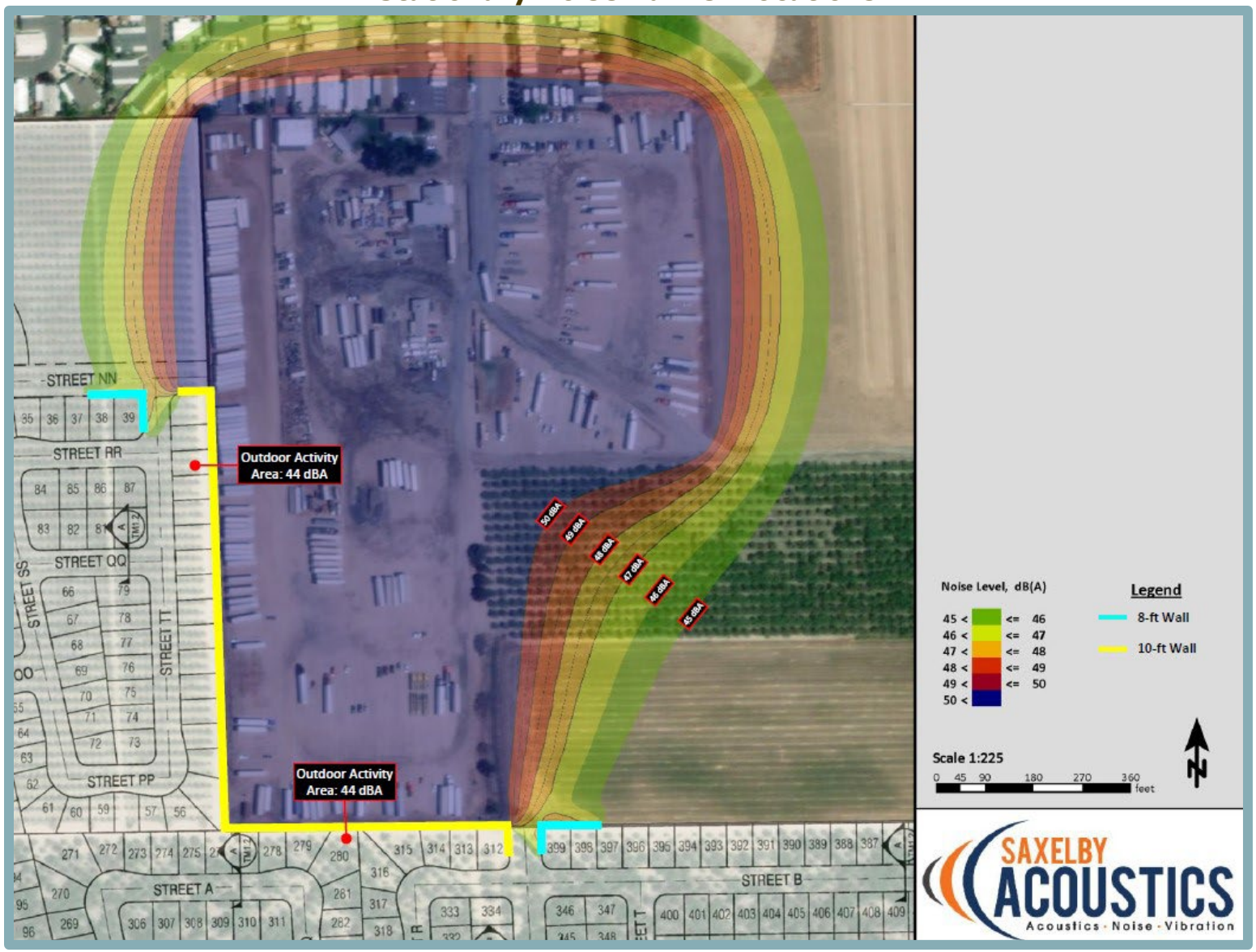


**Table 11**
**Noise-Related Conditions of Approval**

| Timing | Condition of Approval |
|---|---|
| Prior to Improvement Plan Approval | Develop sound walls ranging in height from 14 feet to 16 feet along the SR 99 project frontage as shown in Figure 9. |
| | Develop eight-foot-tall sound walls along the Austin Road project frontage, and the freeway ramp at the southwest corner of the project site, as shown in Figure 9. |
| | Prepare a final acoustic analysis to ensure that the appropriate noise control measures have been incorporated into the proposed project to achieve the exterior and interior noise standards of the City of Manteca on-site. |
| Prior to Building Permit Approval | Include the use of stucco with exterior sheathing and a resilient channel for hanging interior gypsum board along the building facades. |
| | Use STC 34 minimum rated glazing. |
| | Interior gypsum wallboards and gypsum ceiling shall be 5/8-inch. |
| | Mechanical ventilation penetrations for exhaust fans shall not face toward SR 99. |
| | Where feasible, vents should be routed towards the opposite side of the building to minimize sound intrusion to sensitive areas of the buildings |
| | Where vents must face toward SR 99, the duct work be shall be increased in length and make as many "S" turns as feasible prior to exiting the dwelling, which separates the openings between the noise source and the living space with a long circuitous route. Flexible duct work is preferred ducting for this noise mitigation. Where the vent exits the building, a spring-loaded flap with a gasket should be installed to reduce sound entering the duct work when the vent is not in use. |
| | Mechanical ventilation shall be provided to allow occupants to keep doors and windows closed for acoustic isolation. |

The City of Manteca does not currently have adopted standards for groundborne vibration. Table 12, which was developed by Caltrans, shows the vibration levels that would normally be required to result in damage to structures. As shown in the table, the threshold for architectural damage to structures is 0.20 in/sec PPV and continuous vibrations of 0.10 in/sec PPV, or greater, would likely cause annoyance to sensitive receptors.

The proposed project would only cause elevated vibration levels during construction, as the proposed project would not involve any uses or operations that would generate substantial groundborne vibration. Although noise and vibration associated with the construction phase of the project would add to the noise environment in the immediate project vicinity, construction activities would be temporary in nature and are anticipated to occur during normal daytime working hours, consistent with Section 17.58.050(E)(1), and Section 9.52.040 of the City's Municipal Code.

The primary vibration-generating activities associated with the proposed project would occur during project construction. Table 13 shows the typical vibration levels produced by construction equipment at various distances.

As shown in Table 13, the most substantial source of groundborne vibrations associated with project construction would be the use of vibratory compactors during construction of the proposed roadways within the project site; however, the nearest sensitive receptors are located approximately 35 feet from the nearest area where construction would occur within the project site. Thus, groundborne vibration would be below the 0.10 in/sec PPV

threshold established by Caltrans for annoyance to sensitive receptors, as well as the 0.20 in/sec PPV threshold established by Caltrans for building damage.

**Table 12**
**Effects of Vibration on People and Buildings**

| PPV | | Human Reaction | Effect on Buildings |
|---|---|---|---|
| mm/sec | in/sec | | |
| 0.15 to 0.30 | 0.006 to 0.019 | Threshold of perception; possibility of intrusion | Vibrations unlikely to cause damage of any type |
| 2.0 | 0.08 | Vibrations readily perceptible | Recommended upper level of the vibration to which ruins and ancient monuments should be subjected |
| 2.5 | 0.10 | Level at which continuous vibrations begin to annoy people | Virtually no risk of "architectural" damage to normal buildings |
| 5.0 | 0.20 | Vibrations annoying to people in buildings (this agrees with the levels established for people standing on bridges and subjected to relative short periods of vibrations) | Threshold at which there is a risk of "architectural" damage to normal dwelling - houses with plastered walls and ceilings. Special types of finish such as lining of walls, flexible ceiling treatment, etc., would minimize "architectural" damage |
| 10 to 15 | 0.4 to 0.6 | Vibrations considered unpleasant by people subjected to continuous vibrations and unacceptable to some people walking on bridges | Vibrations at a greater level than normally expected from traffic, but would cause "architectural" damage and possibly minor structural damage |

***Source: Caltrans. Transportation Related Earthborne Vibrations. TAV-02-01-R9601. February 20, 2002.***

**Table 13**
**Vibration Levels for Various Construction Equipment**

| Type of Equipment | PPV at 25 feet (in/sec) | PPV at 50 feet (in/sec) |
|---|---|---|
| Large Bulldozer | 0.089 | 0.029 |
| Loaded Trucks | 0.076 | 0.025 |
| Small Bulldozer | 0.003 | 0.000 |
| Auger/drill Rigs | 0.089 | 0.029 |
| Jackhammer | 0.035 | 0.011 |
| Vibratory Hammer | 0.070 | 0.023 |
| Vibratory Compactor/roller | 0.210 | 0.070 |

***Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment Guidelines, May 2006.***

Based on the above, the proposed project would not expose people to or generate excessive groundborne vibration or groundborne noise levels, and a ***less-than-significant*** impact would occur.

c. The nearest airport to the site is the Stockton Metropolitan Airport, located approximately 9.5 miles north of the site. Given the substantial distance between the airport and the project site, noise levels resulting from aircraft at the nearest airport would be negligible at the site. Given that the project site is not located within two miles of a public airport or public use airport, the proposed project would not expose people residing or working in the project area to excessive noise levels associated with such. Thus, ***no impact*** would occur.

| **XIV. POPULATION AND HOUSING.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (e.g., through projects in an undeveloped area or extension of major infrastructure)? | ☐ | ☐ | ✖ | ☐ |
| b. Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere? | ☐ | ☐ | ☐ | ✖ |

## Discussion

a. The proposed project would include the subdivision of the project site into 814 single-family residential lots. According to the U.S. Census Bureau, as of 2019, the average household size in Manteca was estimated at 3.11 persons per household.[33] Using this average household size, the proposed project would result in an estimated population of 2,532 residents. According to the U.S. Census Bureau, the entire town has an estimated total population of 83,028. The estimated 2,532 residents would equate to approximately three percent of the entire City's population.

Per the City's General Plan, the project site is designated as LDR, MDR, HDR, BIP, and P, and the project site is zoned MP. The proposed project would require the approval of a General Plan Amendment to designate the site as LDR, MDR, and P and a Master Plan Amendment to match these land use designations. However, because the project is consistent with previously anticipated uses, the impacts have already been generally anticipated by the City, and the proposed project would not result in unplanned population growth. In addition, the proposed development of single-family housing units would add to the housing stock in the City of Manteca. Furthermore, as discussed in Section XIX, Utilities and Services Systems, of this IS, adequate utility infrastructure and services exist to meet the additional demand that would be created by the project. Similarly, as discussed in Section XV, Public Services, public service providers, such as local police and fire departments, would be capable of accommodating the demands of the proposed project. Therefore, the proposed project would not induce substantial unplanned population growth either directly or indirectly, and a ***less-than-significant*** impact would occur.

b. The project site is currently in use as an orchard and does not contain existing housing or other habitable structures. As such, the project would not displace a substantial number of existing housing or people and would not necessitate the construction of replacement housing elsewhere, and ***no impact*** would occur.

[33] U.S. Census Bureau. *QuickFacts: Manteca city, California.* Available at: https://www.census.gov/quickfacts/fact/table/mantecacitycalifornia,US/PST045219. Accessed September 2021.

## XV. 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:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Fire protection? | ☐ | ☐ | ✖ | ☐ |
| b. Police protection? | ☐ | ☐ | ✖ | ☐ |
| c. Schools? | ☐ | ☐ | ✖ | ☐ |
| d. Parks? | ☐ | ☐ | ✖ | ☐ |
| e. Other Public Facilities? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b,e. Fire protection for the City of Manteca is provided by the Manteca Fire Department (MFD). MFD's main functions are to provide fire prevention, organized and efficient response to fires, first response to hazardous materials incidents, basic level "first responder" medical response, and public fire education. The MFD serves approximately 72,880 residents throughout approximately 17 square miles within the City limits. The nearest MFD station, Fire Station No. 241, located at 290 South Powers Avenue, is approximately 0.95-mile west of the project site. The existing goal is to maintain as average five-minute response time for all emergencies, and engine and ladder companies should be staffed with a minimum of three personnel.

Police protection services within the City of Manteca are provided by the Manteca Police Department. As noted in the General Plan EIR, the Manteca Police Department is a full-service municipal law enforcement agency with specialized assignments and recognized specialties. The Manteca Police Department is headquartered at 1001 West Center Street, which is located approximately 3.1 miles west of the project site. According to the General Plan EIR, the City meets their service standard of one sworn officer per 1,000 residents.

As discussed in Section XIV, Population and Housing, above, the proposed project would result in an estimated population of 2,532 residents, which would equate to approximately 3.8 percent of the entire City's population. Therefore, some increase in demand for fire and law enforcement services, as well as other public facilities, could occur as a result of the increase in population associated with development of the proposed project. However, increased demand alone is not the relevant inquiry under CEQA, nor is the need for additional staff and/or equipment. The relevant inquiry, as confirmed by the courts (see *City of Hayward v. Board of Trustees of the California State University*) is whether a significant effect on the environment would occur in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services as a result of the increased demand.

The proposed project would require the approval of a General Plan Amendment to designate the site as LDR, MDR, and P. The proposed land use designations would be similar to the project site's existing land use designations of LDR, MDR, HDR, BIP, and P; however, high density residential and business industrial park land uses would not be allowed under the proposed land use designations of the project site. As such, the General Plan EIR anticipated the provision of public services to more intense uses than what would

be allowed on the project site following implementation of the proposed project. Nevertheless, the General Plan EIR concluded that by adhering to Fire Protection Policies PF-P-42 through PF-P-45, PF-I-24, and PF-I-25, as specified in the General Plan, potential impacts to fire protection services from buildout of the General Plan would be reduced to a less-than-significant level. Similar to fire protection, the General Plan EIR analyzed the potential impact of development associated with buildout of the General Plan to police protection and concluded that adherence to Police Protection Policies PF-P-39 through PF-P-41, PF-I-22, and PF-I-23 would reduce potential impacts to a less-than-significant level.

The proposed project would also be subject to payment of fire prevention fees in accordance with Chapter XI, Fire Prevention Fees, of the City's Municipal Code, which is used to pay for costs associated with development of new fire stations. The project would also be subject to the City's new Community Facilities District (CFD) that provides for fire and police services. New staff and equipment necessary to provide law enforcement services to new development would be funded by the City's Public Safety Tax and CFD levied on new development, as well as ongoing payments of property taxes. Furthermore, the proposed residences would be constructed in accordance with the fire protection requirements of the most recent California Fire Code.

Based on the above, the proposed project would result in a ***less-than-significant*** impact related to the need for new or physically altered fire protection, police protection, or other public facilities, the construction of which could cause significant environmental impacts.

c. The City of Manteca is served by the Manteca Unified School District (MUSD), which operates 28 schools ranging from Kindergarten through High School; education facilities include 20 elementary schools, three high schools, one adult education school, and two continuation high schools, and serves more than 23,500 students. The proposed project would consist of the development of 814 new single-family residences, which would result in an estimated population of 2,532 residents. According to the U.S. Census Bureau, as of 2019, children under 18 years old made up approximately 26.2 percent of the total population of Manteca.[34] Therefore, the proposed project could increase the amount of school age children in the City by approximately 664 students, or 2.8 percent of the student population of the MUSD. However, as discussed above, increased demand alone is not the relevant inquiry under CEQA, nor is the need for additional staff and/or equipment. Rather, the relevant inquiry is whether a significant effect on the environment would occur as a result of the increased demand.

According to the General Plan EIR, if new school facilities are determined to be needed by the City, the MUSD would select the location of new schools' sites based on the location of new growth and the District's site criteria. As such, an assessment of potential site-specific impacts resulting from the future development of additional school facilities within the City is not possible at this time. The location and nature of any future educational facilities proposed for development would be reviewed through the City's entitlement process and CEQA to ensure that significant environmental effects do not occur.

In addition, the proposed project would be subject to payment of School Impact Mitigation Development Fees to fund local school services. Proposition 1A/SB 50 prohibits local

[34] U.S. Census Bureau. *QuickFacts: Manteca city, California.* Available at: https://www.census.gov/quickfacts/fact/table/mantecacitycalifornia,US/PST045219. Accessed September 2021.

agencies from using the inadequacy of school facilities as a basis for denying or conditioning approvals of any "[…] legislative or adjudicative act…involving …the planning, use, or development of real property" (Government Code 65996[b]). Satisfaction of the Proposition 1A/SB 50 statutory requirements by a developer is deemed to be "full and complete mitigation." Furthermore, the project would be subject to payment of the Manteca Unified School District Residential/Commercial Property Developer fee pursuant to Chapter VI, Development Fees, of the City's Municipal Code.

Because the project applicant would be required to pay appropriate development fees, the proposed project would have a ***less-than-significant*** impact related to the need for new or physically altered schools, the construction of which could cause significant environmental impacts.

d. Issues related to parks and recreation are discussed in further detail in Section XVI, Recreation, below. As noted therein, the proposed project would include the development of an adequate amount of parkland based on the anticipated increase in residents. In addition, with the development of the proposed project the City would maintain a ratio of 5.73 acres of parkland per 1,000 residents, which would be above the City standard of five acres of parkland per 1,000 residents. Furthermore, the proposed project would comply with General Plan Policy PF-P-53, which requires all new residential development to pay a park acquisition and improvement fee to fund system-wide improvements. Payment of the park acquisition and improvement fee is to ensure the City can continue to provide five acres of parkland per 1,000 residents. Therefore, the proposed project would result in a ***less-than-significant*** impact related to the need for new or physically altered parks, the construction of which could cause significant environmental impacts.

| **XVI. RECREATION.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| 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? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,b. A total of 7.7 acres of parks and recreational facilities would be developed on-site as part of the proposed project. According to the City of Manteca Parks and Recreation Master Plan (PRMP), as of 2016, the City managed more than 483 acres of parks, facilities, trails, and recreation lands. The park acreage standard for the City of Manteca is five acres per 1,000 residents. However, the City has determined that neighborhood parks shall be developed at a rate of three acres of park per 1,000 residents. The PRMP provides a rate of 3.15 people per single-family residence to calculate the required parkland to be developed by projects within the City. Using the rate provided in the PRMP, the proposed project would generate an estimated 2,565 residents. Therefore, the proposed project would be required to provide a minimum of 7.7 acres of parkland on-site. Because the proposed project would include the development of an adequate amount of parkland based on the anticipated increase in residents, the proposed project would not substantially 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.

Additionally, according to the 2019 U.S. Census Bureau, the estimated total population of the City of Manteca is 83,028, and according to the PRMP, the City's total park acreage is 483 acres; thus, the City currently maintains a ratio of 5.82 acres of parkland per 1,000 residents, which is above the City standard. With the addition of the 2,565 residents and 7.7 acres of parks and recreational facilities, the City would maintain a ratio of 5.73 acres of parkland per 1,000 residents.

Furthermore, the proposed project would be compliant with General Plan Policy PF-P-53, which requires all new residential development to pay a park acquisition and improvement fee to fund system-wide improvements. Payment of the park acquisition and improvement fee is to ensure the City can continue to provide five acres of parkland per 1,000 residents.

Based on the above, the proposed project would not result in the increased use of existing recreational facilities such that substantial physical deterioration of the facilities would occur or be accelerated, nor would the proposed project include or require construction or expansion of recreational facilities which might have an adverse physical effect on the environment. Thus, a ***less-than-significant*** impact would occur.

| **XVII.TRANSPORTATION.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities? | ☐ | ☐ | ✖ | ☐ |
| b. Conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)? | ☐ | ☐ | ✖ | ☐ |
| c. Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)? | ☐ | ☐ | ✖ | ☐ |
| d. Result in inadequate emergency access? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. The law has changed with respect to how transportation-related impacts may be addressed under CEQA. Traditionally, lead agencies used LOS to assess the significance of such impacts, with greater levels of congestion considered to be more significant than lesser levels. Mitigation measures typically took the form of capacity-increasing improvements, which often had their own environmental impacts (e.g., to biological resources). Depending on circumstances, and an agency's tolerance for congestion (e.g., as reflected in its general plan), LOS D, E, or F often represented significant environmental effects. In 2013, however, the Legislature passed legislation with the intention of ultimately doing away with LOS in most instances as a basis for environmental analysis under CEQA. Enacted as part of SB 743 (2013), PRC Section 21099, subdivision (b)(1), directed the Governor's Office of Planning and Research (OPR) to prepare, develop, and transmit to the Secretary of the Natural Resources Agency for certification and adoption proposed CEQA Guidelines addressing "criteria for determining the significance of transportation impacts of projects within transit priority areas. Those criteria shall promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses. In developing the criteria, [OPR] shall recommend potential metrics to measure transportation impacts that may include, but are not limited to, vehicle miles traveled, vehicle miles traveled per capita, automobile trip generation rates, or automobile trips generated. The office may also establish criteria for models used to analyze transportation impacts to ensure the models are accurate, reliable, and consistent with the intent of this section."

CEQA Guidelines Section 21099(b)(2) further provides that "[u]pon certification of the guidelines by the Secretary of the Natural Resources Agency pursuant to this section, automobile delay, as described solely by level of service or similar measures of vehicular capacity or traffic congestion *shall not be considered a significant impact on the environment* pursuant to [CEQA], except in locations specifically identified in the guidelines, if any." (Italics added.)

Pursuant to SB 743, the Natural Resources Agency promulgated CEQA Guidelines Section 15064.3 in late 2018. It became effective in early 2019. Subdivision (a) of that section provides that "[g]enerally, vehicle miles traveled is the most appropriate measure of transportation impacts. For the purposes of this section, 'vehicle miles traveled' refers to the amount and distance of automobile travel attributable to a project. Other relevant considerations may include the effects of the project on transit and non-motorized travel.

Except as provided in subdivision (b)(2) below (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact."[35]

Please refer to Question 'b' for a discussion of Vehicle Miles Travelled (VMT). In addition, further information regarding intersection delay at the intersections surrounding the project site as it relates to site access and circulation is provided in Question 'c,d', below.

## Pedestrian, Bicycle, and Transit Facilities

The proposed project's potential impacts related to pedestrian, bicycle, and transit facilities are discussed below.

### Pedestrian and Bicycle Facilities

The City of Manteca maintains four classes of bicycle facilities (Class I, Class II, Class III, and Class IV). According to the City of Manteca Active Transportation Plan (ATP), 10.3 miles of shared-use paths, 45.2 miles of streets with bicycle facilities, and 557.1 miles of sidewalks currently exist within Manteca.[36] The nearest pedestrian facilities to the project site are the existing sidewalks along East Yosemite Avenue and Vasconcellos Avenue, and the nearest bicycle facility is a Class II bicycle lane which extends north from East Yosemite Avenue along Pestana Avenue, approximately 0.3-mile from the northern boundary of the project site. However, a Class II bicycle lane is being proposed as part of the City's ATP which would extend the existing infrastructure along the roadways within the project vicinity, including Austin Road.[37] Implementation of the proposed project would not conflict with any planned pedestrian or bicycle facilities noted in the City of Manteca Active Transportation Plan.

Overall, the existing and proposed pedestrian and bicycle facilities in the City of Manteca are anticipated to have substantial capacity to accommodate any pedestrian and bicycle traffic generated from implementation of the proposed project.

### Transit Service and Facilities

Manteca Transit operates a fixed-route and Dial-a-Ride bus service with stops throughout the City. Route 1 provides fixed route service to the project area. The nearest stop to the project site is located near the East Yosemite Avenue/Pestana Avenue intersection, approximately 0.3-mile north of the northern boundary of the project site. In addition to Manteca Transit, the San Joaquin Regional Transportation District provides both weekday and weekend service to the City of Manteca. Therefore, existing transit services and facilities contain sufficient capacity to accommodate potential transit users at the proposed project.

## Conclusion

Based on the above, a ***less-than-significant*** impact would occur related to conflicting with a program, plan, ordinance, or policy addressing the circulation system, including transit, bicycle, and pedestrian facilities.

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[35] Subdivision (b)(2) of Section 15064.3 ("transportation projects") provides that "[t]ransportation projects that reduce, or have no impact on, vehicle miles traveled should be presumed to cause a less than significant transportation impact. For roadway capacity projects, agencies have discretion to determine the appropriate measure of transportation impact consistent with CEQA and other applicable requirements. To the extent that such impacts have already been adequately addressed at a programmatic level, such as in a regional transportation plan EIR, a lead agency may tier from that analysis as provided in Section 15152.

[36] City of Manteca. *City of Manteca Active Transportation Plan* [pg.11]. August 2020.

[37] City of Manteca. *City of Manteca Active Transportation Plan* [pg. 27]. August 2020.

b. Section 15064.3 of the CEQA Guidelines provides specific considerations for evaluating a project's transportation impacts. Pursuant to Section 15064.3, analysis of VMT attributable to a project is the most appropriate measure of transportation impacts. Other relevant considerations may include the effects of the project on transit and non-motorized travel. The Governor's OPR released *The Technical Advisory on Evaluating Transportation Impacts in CEQA*, which includes screening thresholds to identify when a lead agency may screen out VMT impacts.[38] Similar to the OPR Technical Advisory, the City of Manteca Interim SB 743 Implementation Plan identifies different project types that are assumed to cause a less-than-significant transportation impact and, thus, a detailed VMT study is not necessary. Projects that meet the screening criteria include the following:

- **Small projects –** projects consistent with a Sustainable Communities Strategy and local general plan that generate or attract fewer than 110 trips per day.
- **Projects near major transit stops –** certain projects (residential, retail, office, or a mix of these uses) proposed within 0.5-mile of an existing major transit stop or an existing stop along a high-quality transit corridor.
- **Affordable residential development –** a project consisting of a high percentage of affordable housing may be a basis to find a less-than-significant impact on VMT.
- **Projects in low VMT areas –** residential and office projects that incorporate similar features (i.e., density, mix of uses, transit accessibility) as existing development in areas with low VMT will tend to exhibit similarly low VMT.

The proposed project does not constitute a small project, is not located within 0.5-mile of an existing major transit stop and does not include a high percentage of affordable housing units; therefore, the project is not eligible to be screened out based on the City criteria. The City of Manteca has not developed low VMT areas, so this criterion is not applicable at this time.

As such, a detailed VMT analysis was conducted for the proposed project.[39] The project involves multiple land use changes and a mix of residential and non-residential land uses; therefore, the project's effect on VMT was evaluated on a model wide basis, using the City of Manteca Travel Demand Forecasting Model (TDF Model) to estimate model wide VMT under cumulative (Year 2040) conditions with and without the proposed land use changes. The project would cause a result in a significant impact if the implementation of the proposed project would result in an increase in model wide VMT. The results of the VMT analysis are presented in Table 14.

**Table 14**
**Project Vehicle Miles Traveled Analysis**

| Scenario | Total VMT |
|---|---|
| 2040 with Existing Land Uses | 20,110,925 |
| 2040 with Proposed Land Uses | 20,083,852 |
| *Difference* | *-27,073* |

***Source: City of Manteca Travel Demand Model – Fehr & Peers, 2022.***

As shown in Table 14**,** the proposed land use changes would decrease the City's total model wide VMT under cumulative (Year 2040) conditions. Therefore, the proposed

[38] Governor's Office of Planning and Research. *Technical Advisory on Evaluating Transportation Impacts in CEQA*. December 2018.

[39] Fehr & Peers. *Transportation Evaluation of Proposed Rezone of Yosemite Square Master Plan.* July 7, 2022.

project would not conflict or be inconsistent with CEQA Guidelines Section 15064.3(b), and a ***less-than-significant*** impact would occur.

c,d. Access to the project site would be provided by two driveways off of Austin Road, along the eastern boundary of the project site. The project driveway and internal drive aisles would be at least 26 feet wide, which is sufficient for truck and emergency vehicle access. The proposed residences would be sufficiently set back from Austin Road such that visibility for motorists would not be hindered. During project construction, public roads in the vicinity would remain open and available for use by emergency vehicles and other traffic.

Implementation of the proposed project would introduce additional vehicle traffic along Austin Road. However, as noted in the General Plan EIR, with implementation of General Plan goals and policies, buildout of the General Plan would result in less-than-significant impacts related to emergency response and evacuation (see Impact HM-4). Because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. Therefore, impacts related to hazards and emergency access associated with the proposed project were generally analyzed and anticipated in the General Plan EIR. Nonetheless, based on a Site Access and Circulation Review prepared for the proposed project,[40] the City would condition the proposed project to include the following measures, as recommended by Fehr & Peers:

- An additional traffic study and/or warrant analysis shall be conducted for the project access on Austin Road to determine the intersection control. Likely control options include side-street stop control, all-way stop control, and a single-lane roundabout.

The project site plans shall demonstrate incorporation of all applicable traffic calming measures included in the Site Access and Circulation Review prepared for the proposed project by Fehr & Peers, as well as the incorporation of additional bicycle infrastructure at the recreational facilities within the project site.

Based on the above, the proposed project would not substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment) or result in inadequate emergency access. Therefore, a ***less-than-significant*** impact would occur.

[40] Fehr & Peers. *Transportation Evaluation of Proposed Rezone of Yosemite Square Master Plan.* July 7, 2022.

| **XVIII. 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:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| 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). | ☐ | ✖ | ☐ | ☐ |
| 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. | ☐ | ✖ | ☐ | ☐ |

## Discussion

a,b. As discussed in Section V, Cultural Resources, of this IS/MND, a records search of the CHRIS performed by the CCIC concluded that the project site does not contain any recorded historic buildings or structures on any lists of historic resources.[41] Based on the results of the records search of the CHRIS, the CCIC concluded that the project site does not contain any recorded archaeological resources. In addition, a search of the NAHC Sacred Lands File indicated that the project site does not contain any known Tribal Cultural Resources.[42]

In compliance with AB 52 (PRC Section 21080.3.1) and SB 18, project notification letters were distributed to local tribes. The letters were distributed on May 31, 2022. Responses were received from the North Valley Yokuts Tribe and the Confederated Villages of Lisjan Nation requesting consultation. Based on conversations between the City and the aforementioned tribes, consultation was closed in June 2022. As part of consultation, the North Valley Yokuts Tribe requested that a tribal monitor to be present during site disturbance activities, and determined that the potential exists for unknown tribal cultural resources to be present within the project site. As such, the North Valley Yokuts Tribe provided specific mitigation measures, as presented below, to ensure that the proposed project would not result in significant effects to unknown tribal cultural resources within the project site.

Based on lack of identified cultural resources at the site and the extensive disturbance that has occurred within the project vicinity, known Tribal Cultural Resources do not exist within the site. Nevertheless, as discussed above, the possibility exists that construction of the proposed project could result in a substantial adverse change in the significance of a Tribal Cultural Resource if previously unknown Tribal Cultural Resources are uncovered

[41] Central California Information Center. *Records Search File#: 11891L, Project: Yosemite Square Subdivision.* September 9, 2021.

[42] Native American Heritage Commission. *Re: Native American Consultation, Pursuant to Senate Bill 18, Government Code §65352.3 and §65352.4, Yosemite Square Subdivision Project, San Joaquin County.* October 20, 2021.

during grading or other ground-disturbing activities. Thus, a ***potentially significant*** impact to Tribal Cultural Resources could occur.

## Mitigation Measure(s)

Implementation of the following mitigation measure would reduce the above impact to a *less-than-significant* level.

*XVIII-1.* *The project developer shall retain a representative of the Northern Valley Yokuts to monitor ground disturbance activities within the project site. The Northern Valley Yokuts representative shall provide a brief pre-construction training to key excavation crew members which would describe the cultural resource sensitivity of the site with regard to buried cultural resource materials that could be encountered, potential signs of historical and pre-historic use, and the responsibility to stop work and report suspected finds.*

*In the event that construction encounters evidence of human remains, buried, or scattered human remains, construction in the vicinity of the encounter shall immediately halt. The project developer and or contractor shall immediately notify the County Coroner, the City of Manteca Development Department and the Northern Valley Yokuts Tribal representative. Other Federal and State agencies shall be notified as required. The project developer shall be responsible for compliance with the requirements of CEQA as to human remains as defined in CEQA guidelines, with California Health and Safety Code Section 7050.5 and as directed by the County Coroner. If the human remains are determined to be Native American, the County Coroner shall notify the Native American Heritage Commission and the Native American Heritage Commission shall appoint a Most Likely Descendant.*

*If other tribal cultural resources are encountered during project constriction, all construction activity in the vicinity of the encounter shall be immediately halted until a qualified archaeologist and or tribal representative can examine the material and determine their "uniqueness" or significance as tribal cultural resource as defined by CEQA. The Northern Valley Yokuts representative shall recommend mitigation measures needed to reduce potential effects to a level that is less than significant. The developer would be responsible for retaining the archaeologist and Northern Valley Yokuts representative and implementing their recommendation in a written report, which shall be submitted to the City of Manteca Community Development Department with a copy to the Northern Valley Yokuts representative.*

| **XIX. UTILITIES AND SERVICE SYSTEMS.** *Would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Require or result in the relocation or construction of new or expanded water, wastewater treatment, or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects? | ☐ | ☐ | ✖ | ☐ |
| b. Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years? | ☐ | ☐ | ✖ | ☐ |
| c. Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments? | ☐ | ☐ | ✖ | ☐ |
| d. Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals? | ☐ | ☐ | ✖ | ☐ |
| e. Comply with federal, state, and local management and reduction statutes and regulations related to solid waste? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a,c. The sections below describe the wastewater, water supply, stormwater drainage, electric power, and telecommunications infrastructure necessary to serve the proposed project.

### Wastewater Conveyance Infrastructure

Sewer service for the proposed project would be provided by the City of Manteca Sewer Division. The proposed wastewater conveyance facilities would require construction of a regional sewer pump station along Austin Road adjacent to the southern project entrance. Discharge from the regional sewer pump station would be conveyed by a force main located south of the project site along Austin Road for 3,000 linear feet to an existing 8-inch force main which extends under SR 99 to the intersection of Woodward Avenue and Moffatt Boulevard. The existing force main would be extended to the west for an additional 1,400 linear feet along Woodward Avenue to connect an existing 15-inch sewer stub that is part of the City of Manteca collection and treatment system. While the proposed project would include the development of off-site wastewater conveyance infrastructure, the physical impacts associated with such infrastructure have been addressed throughout this IS/MND. In addition, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. Therefore, a less-than-significant impact would occur related to construction of new or expanded wastewater conveyance supply facilities.

### Wastewater Treatment

Pursuant to the General Plan EIR, the City of Manteca Wastewater Quality Control Facility (WQCF) is a combined biofilter-activated sludge wastewater treatment plant that serves commercial and residential properties in the City of Manteca, the City of Lathrop, and one

frozen food packager (Eckert Cold Storage). The WQCF is located southwest of downtown Manteca at 2450 West Yosemite Avenue. Currently, the WQCF treats an average dry weather flow (ADWF) of about 6 million gallons per day (mgd) and has an average dry weather design capacity of 9.87 mgd. Per the 2007 WQCF Master Plan, wastewater flow is projected to reach 19.5 mgd by 2023 and 23 mgd by buildout of the General Plan. The City is planning to expand the facility to 27 mgd by buildout.[43] Considering the WQCF has been master planned to have a capacity of 27 mgd, and buildout of the City is expected to generate a wastewater treatment demand of 23 mgd, the WQCF would have adequate capacity to serve the City of Manteca at General Plan buildout. As discussed above, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. Therefore, buildout of the site with residential land uses was considered in the WQCF planning efforts. In addition, the General Plan EIR notes that, the planned improvements to the WQCF would be more than sufficient to accommodate the growth planned in General Plan, and impacts related to wastewater treatment capacity would be less than significant.

Furthermore, the project applicant would be required to pay Chapter 13.38, Public Facilities Implementation Program Fees, and, specifically, Section 13.38.050, which requires developers of property to pay a sewer facility development fee. Required payment of the sewer facility development fee would ensure that the WQCF receives adequate funding for necessary future improvements.

Based on the above, the proposed project would not result in a determination by the wastewater treatment provider which serves or may serve the project that it does not have adequate capacity to serve the project's projected demand in addition to the provider's existing commitments.

### Water Supply Infrastructure

Water supply to the proposed development would be provided by the City of Manteca Water Division. The proposed project would connect to the City of Manteca water system at the northern and southern boundaries of the project site. Development of the proposed potable water system would include construction of a 12-inch water main along the entire length of Austin Road and along the internal roadway network of the site. Additionally, an internally looped system of water lines would be installed within the project site. A potable well site would be installed within the subdivision, adjacent to the internal roadway network. While the proposed project would include the development of off-site water supply infrastructure, the physical impacts associated with such infrastructure have been addressed throughout this IS/MND. In addition, because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. Therefore, a less-than-significant impact would occur related to construction of new or expanded water supply facilities.

### Stormwater Infrastructure

Currently, the project site is in use as agricultural land and is comprised entirely of an almond orchard consisting of mature and immature trees. Completion of the proposed project would increase site runoff due to the introduction of impervious surfaces to the site. A new storm drainage system, including a drainage collection system, storm drain pump

[43] City of Manteca. *General Plan Existing Conditions Report: 3.0 Utilities and Community Services*. October 2017.

stations, and detention basins would be constructed as part of the proposed project. It should be noted that the locations of the proposed detention basins are conceptual and will be finalized during the design of Improvement Plans. The proposed on-site storm drainage pump station and force main would extend within the internal roadway network of the project site, and would connect to a proposed storm drainage system along Austin Road. Storm drain lines would be constructed along the entire Austin Road project frontage, and would extend south of the project frontage along Austin Road for approximately 2,000 linear feet. As discussed in further detail in Section X, Hydrology and Water Quality, of this IS/MND, the proposed stormwater treatment facilities would be designed with adequate capacity to capture and treat runoff from the proposed impervious surfaces. Therefore, the proposed project would result in a less-than-significant impact with respect to requiring or resulting in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects.

### Electricity, Natural Gas, and Telecommunications Facilities

The project site is located within a developed area of the City of Manteca and is situated within close proximity to existing electric power, natural gas, and telecommunications facilities. Thus, substantial expansion of such off-site utilities would not be required to serve the proposed development, and associated environmental effects would not occur.

### Conclusion

Based on the above, a ***less-than-significant*** impact would occur related to requiring or resulting in the relocation or construction of new or expanded water, wastewater treatment, or stormwater drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects, or resulting in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments.

b. The City of Manteca is the water service provider for the City. The City's water supply is provided by two main sources: surface water from the Stanislaus River supplied through an agreement with South San Joaquin Irrigation District, and groundwater pumped from the Eastern San Joaquin Subbasin. Implementation of the South County Water Supply Project, which began in 2005, provides for the delivery of treated surface water and has enabled the City to significantly reduce reliance on local groundwater sources and enhance water supply reliability. The City's goal is to achieve a 53 percent to 47 percent annual balance of surface water to groundwater, respectively.

In 2016, the City adopted the City of Manteca 2015 UWMP, as required by the Urban Water Management Planning Act of 1983. The UWMP serves as a long-term planning document for sustainable water supply, and includes a description of water sources, historical and projected water use, and a comparison of water supply and demand during normal and dry years. The UWMP has identified regional water demand in normal, single dry, and multiple dry years in five-year increments. Water demand projections were based on buildout of the City's General Plan. A Water Supply Assessment (WSA) was prepared by West Yost to determine if the City of Manteca would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years.[44]

[44] West Yost. *Yosemite Square Water Supply Assessment.* April 2022.

Table 15 presents the City's projected supply and demand during Normal, Single Dry, and Multiple Dry Years. As shown in the table, demand within the City's service area is not expected to exceed the City's supplies in any year between 2020 and 2045.

**Table 15**
**Summary of Potable and Raw Water Demand Versus Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years**

| Hydrologic Condition | | Supply and Demand Comparison, AFY | | | | |
|---|---|---|---|---|---|---|
| | | 2025 | 2030 | 2035 | 2040 | 2045 |
| **Normal Year** | | | | | | |
| Available Potable and Raw Water Supply | | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| Total Water Demand | | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| *Potential Surplus* | | *4,780* | *4,235* | *3,678* | *10,120* | *9,572* |
| **Single Dry Year** | | | | | | |
| Available Potable and Raw Water Supply | | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| Total Water Demand | | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| *Potential Surplus* | | *2,929* | *3,301* | *3,661* | *6,212* | *6,743* |
| **Multiple Dry Year** | | | | | | |
| Multiple Dry Year 1 | Available Potable and Raw Water Supply | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | *Potential Surplus* | *4,780* | *4,235* | *3,678* | *10,120* | *9,572* |
| Multiple Dry Year 2 | Available Potable and Raw Water Supply | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | *Potential Surplus* | *4,780* | *4,235* | *3,678* | *10,120* | *9,572* |
| Multiple Dry Year 3 | Available Potable and Raw Water Supply | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| | Total Water Demand | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | *Potential Surplus* | *2,929* | *3,301* | *3,661* | *6,212* | *6,743* |
| Multiple Dry Year 4 | Available Potable and Raw Water Supply | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| | Total Water Demand | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | *Potential Surplus* | *2,929* | *3,301* | *3,661* | *6,212* | *6,743* |
| Multiple Dry Year 5 | Available Potable and Raw Water Supply | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | *Potential Surplus* | *4,780* | *4,235* | *3,678* | *10,120* | *9,572* |

***Source: West Yost, 2022.***

Table 16 presents the projected water demand for buildout of the proposed project. As shown in Table 16, the proposed project would have a total projected water demand of 373.5-acre feet per year (AFY), 22.4 AFY of which were unaccounted for within the City's projected water demands, as shown in Table 15 above.

The proposed project would not result in an increase in water demand such that the City's total demand would exceed the City's supplies in any year between 2020 and 2045 Therefore, projected water supplies would be sufficient to satisfy water demands associated with the proposed project while still meeting the current and projected water demands of existing customers within the service area. Sufficient water supplies would be available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years, and a ***less-than-significant*** impact would occur.

**Table 16**
**Projected Water Demand for Buildout of the Proposed Project**

| Land Use Designation | Gross Area, acres | Dwelling Units | Water Use Factor | | Potable Water Demand, AFY |
|---|---|---|---|---|---|
| Medium Density Residential | 25.2 | 220 | 321[1] | gpd/DU | 79.0 |
| Medium Density Residential | 28.3 | 231 | 343[2] | gpd/DU | 88.8 |
| Low Density Residential | 37.0 | 250 | 332[3] | gpd/DU | 92.8 |
| Low Density Residential | 10.7 | 63 | 380[4] | gpd/DU | 26.8 |
| Low Density Residential | 9.6 | 50 | 430[5] | gpd/DU | 24.1 |
| Park | 9.8 | - | 3,600 | gpd/acre | 39.5 |
| Backbone Road | 11.4 | - | - | - | - |
| Other | 5.6 | - | - | - | - |
| *Subtotal* | *137.5* | *814* | - | - | *351.1* |
| | | | | Unaccounted-for Water (UAFW)[6] | 22.4 |
| | | | | **Total Demand** | **373.5** |

Notes:
1 Based on MDR water use factor of 2,800 gpd/acre and an average density of 8.7 du/acre.
2 Based on MDR water use factor of 2,800 gpd/acre and an average density of 8.2 du/acre.
3 Based on LDR water use factor of 2,240 gpd/acre and an average density of 6.8 du/acre.
4 Based on LDR water use factor of 2,240 gpd/acre and an average density of 5.9 du/acre.
5 Based on LDR water use factor of 2,240 gpd/acre and an average density of 5.2 du/acre.
6 Based on 6 percent of project water demands.

***Source: West Yost, 2022.***

d,e. The City of Manteca Solid Waste Division collects solid waste throughout the City and deposits it at the Lovelace Solid Waste Transfer Station. Recyclable materials are sorted at the Lovelace facility. Solid waste that is not recyclable is then transferred to other landfills in the area, including, but not limited to, the following:

1. Austin Road/Forward Landfill (I.D. SWIS #39-AA-0001): This green waste landfill has a closure date of 2053 and has a remaining capacity of 1,608,752 cubic yards (CY).[45]
2. Forward, Inc. (I.D. SWIS #39-AA-0015): This solid waste landfill has a remaining capacity of 22,100,000 CY.[46]

Due to the substantial amount of available capacity remaining at the landfills serving the City, sufficient capacity would be available to accommodate the project's solid waste disposal needs. In addition, the proposed project would be required to comply with all applicable regulations included in Chapter 13.02, Solid Waste Collection and Disposal, of the City's Municipal Code.

[45] City of Manteca. *Manteca General Plan 2023 Environmental Impact Report (SCH# 2002042088)* [pg 14-5]. October 6, 2003.
[46] CalRecycle. *SWIS Facility/Site Activity Details: Forward Landfill, Inc. (39-AA-0015)*. Available at: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1434?siteID=3106. Accessed March 2021.

The General Plan EIR concluded, under Impacts PFS-4 and PFS-5, that buildout of the General Plan would result in less-than-significant impacts related to solid waste with implementation of the plans and policies included in the General Plan. Because the project is consistent with the existing zoning district and would be substantively similar to the existing land use designations of the site, the impacts have already been generally anticipated by the City. Therefore, solid waste generation associated with the project has been anticipated by the City and accounted for in regional planning efforts.

Based on the above, implementation of the proposed project would result in a ***less-than-significant*** impact related to generating solid waste in excess of State or local standards or complying with federal, State, and local management and reduction statutes and regulations related to solid waste.

| **XX. WILDFIRE.** *If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:* | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Substantially impair an adopted emergency response plan or emergency evacuation plan? | ☐ | ☐ | ✖ | ☐ |
| b. Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire? | ☐ | ☐ | ✖ | ☐ |
| c. Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment? | ☐ | ☐ | ✖ | ☐ |
| d. Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a-d. According to the California Department of Forestry and Fire Protection (CAL FIRE) Fire and Resource Assessment Program, the project site is not located within or near a VHFHSZ or State Responsibility Area.[47] Additionally, the developed nature of the project area precludes the spread of wildfire to the site as the development acts as a fuel break due to lack of brush and other vegetation that could act as fire fuel. Furthermore, the proposed residences would include fire sprinklers, and other fire suppression features, consistent with the CBSC and California Fire Code. Therefore, the proposed project would not be expected to be subject to or result in substantial adverse effects related to wildfires, and a ***less-than-significant*** impact would occur.

[47] California Department of Forestry and Fire Protection. *Fire Hazard Severity Zone Viewer*. Available at: https://egis.fire.ca.gov/FHSZ/. Accessed September 2021.

| XXI. MANDATORY FINDINGS OF SIGNIFICANCE. | Potentially Significant Impact | Less-Than-Significant with Mitigation Incorporated | Less-Than-Significant Impact | No Impact |
|---|---|---|---|---|
| a. Does the project have the potential to substantially 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, substantially 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 will cause substantial adverse effects on human beings, either directly or indirectly? | ☐ | ☐ | ✖ | ☐ |

## Discussion

a. As discussed in Section IV, Biological Resources, of this IS/MND, while the potential exists for Swainson's hawk and other nesting migratory birds and raptors to occur on-site, Mitigation Measures IV-1 and IV-2 would ensure that impacts to such species would be reduced to a less-than-significant level. The project site has been previously developed and does not contain any known historic or prehistoric resources. Thus, implementation of the proposed project is not anticipated to have the potential to result in impacts related to historic or prehistoric resources. Nevertheless, Mitigation Measures V-1 through V-3 would ensure that, in the event that historic or prehistoric resources are discovered within the project site during construction activities, such resources are protected in compliance with the requirements of CEQA.

Considering the above, the proposed project would not: 1) degrade the quality of the environment; 2) substantially reduce or impact the habitat of fish or wildlife species; 3) cause fish or wildlife populations to drop below self-sustaining levels; 4) threaten to eliminate a plant or animal community; 5) reduce the number or restrict the range of a rare or endangered plant or animal; or 6) eliminate important examples of the major periods of California history or prehistory. Therefore, a ***less-than-significant*** impact would occur.

b. The proposed project in conjunction with other development within the City of Manteca could incrementally contribute to cumulative impacts in the area. However, as demonstrated in this IS/MND, all potential environmental impacts that could occur as a result of project implementation would be reduced to a less-than-significant level through compliance with the mitigation measures included in this IS/MND, as well as applicable General Plan policies, Municipal Code standards, and other applicable local and State regulations.

Therefore, when viewed in conjunction with other closely related past, present, or reasonably foreseeable future projects, development of the proposed project would not result in a cumulatively considerable contribution to cumulative impacts in the City of

Manteca, and the project's incremental contribution to cumulative impacts would be ***less-than-significant***.

c. As described in this IS/MND, the proposed project would comply with all applicable General Plan policies, Municipal Code standards, other applicable local and State regulations, and mitigation measures included herein. In addition, as discussed in the Air Quality, Geology and Soils, Hazards and Hazardous Materials, Greenhouse Gas Emissions, and Noise sections of this IS/MND, the proposed project would not cause substantial effects to human beings, which cannot be mitigated to less-than-significant levels, including effects related to exposure to air pollutants, geologic hazards, GHG emissions, hazardous materials, and excessive noise. As such, the proposed project would not result in direct or indirect impacts to human beings and, thus, the project's impact would be ***less-than-significant***.

# APPENDIX A

## AIR QUALITY AND GHG MODELING RESULTS

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# Yosemite Square Subdivision Project

**San Joaquin Valley Unified APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 16.50 | Acre | 16.50 | 718,740.00 | 0 |
| Other Asphalt Surfaces | 4.90 | Acre | 4.90 | 211,680.00 | 0 |
| City Park | 7.70 | Acre | 7.70 | 335,412.00 | 0 |
| Single Family Housing | 814.00 | Dwelling Unit | 113.40 | 1,465,200.00 | 2582 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.7 | **Precipitation Freq (Days)** | 45 |
| **Climate Zone** | 2 | | | **Operational Year** | 2028 |
| **Utility Company** | Pacific Gas and Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 203.98 | **CH4 Intensity (lb/MWhr)** | 0.033 | **N2O Intensity (lb/MWhr)** | 0.004 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with site plan prepared for the proposed project. 4.86 acres of asphalt surfaces included to represent off-site roadway widening.

Construction Phase - Construction phase timing based on applicant provided AQ Questionnaire. Architectural coating assumed to start two weeks after building construction, and last for the same duration.

Grading -

Vehicle Trips - Trip generation rates and VMT adjusted based on transportation report prepared by Fehr & Peers for the proposed project.

Woodstoves -

Construction Off-road Equipment Mitigation - Based on applicant provided AQ Questionnaire.

Mobile Land Use Mitigation - Based on applicant provided AQ Questionnaire.

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Based on applicant provided AQ Questionnaire.

Water Mitigation - Compliant with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps - Representative of generator for proposed pump station.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 120.00 | 60.00 |
| tblConstructionPhase | NumDays | 310.00 | 20.00 |
| tblConstructionPhase | NumDays | 220.00 | 40.00 |
| tblConstructionPhase | NumDays | 3,100.00 | 720.00 |
| tblConstructionPhase | NumDays | 220.00 | 720.00 |
| tblLandUse | LandUseSquareFeet | 213,444.00 | 211,680.00 |
| tblLandUse | LotAcreage | 264.29 | 113.40 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 201.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.01 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 3.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblVehicleTrips | HO_TL | 7.50 | 7.30 |
| tblVehicleTrips | HS_TL | 7.30 | 7.11 |
| tblVehicleTrips | HW_TL | 10.80 | 10.51 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 9.54 | 9.51 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 8.55 | 9.51 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 9.44 | 9.51 |

## 2.0 Emissions Summary

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 1.4176 | 2.3840 | 2.6561 | 7.4400e-003 | 1.0090 | 0.0917 | 1.1007 | 0.4281 | 0.0851 | 0.5132 | 0.0000 | 679.0409 | 679.0409 | 0.0891 | 0.0343 | 691.4766 |
| 2024 | 5.7081 | 3.8650 | 5.8475 | 0.0203 | 1.2922 | 0.1046 | 1.3969 | 0.3494 | 0.0990 | 0.4483 | 0.0000 | 1,888.3825 | 1,888.3825 | 0.1002 | 0.1321 | 1,930.2583 |
| 2025 | 5.6431 | 3.6810 | 5.5897 | 0.0198 | 1.2873 | 0.0916 | 1.3789 | 0.3480 | 0.0866 | 0.4346 | 0.0000 | 1,848.2106 | 1,848.2106 | 0.0969 | 0.1279 | 1,888.7598 |
| 2026 | 3.0167 | 1.8390 | 2.7437 | 9.8100e-003 | 0.6527 | 0.0461 | 0.6988 | 0.1764 | 0.0436 | 0.2201 | 0.0000 | 918.0647 | 918.0647 | 0.0478 | 0.0626 | 937.9227 |
| **Maximum** | **5.7081** | **3.8650** | **5.8475** | **0.0203** | **1.2922** | **0.1046** | **1.3969** | **0.4281** | **0.0990** | **0.5132** | **0.0000** | **1,888.3825** | **1,888.3825** | **0.1002** | **0.1321** | **1,930.2583** |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2023 | 1.3050 | 2.1032 | 2.9929 | 7.4400e-003 | 1.0090 | 0.0902 | 1.0992 | 0.4281 | 0.0900 | 0.5181 | 0.0000 | 679.0406 | 679.0406 | 0.0891 | 0.0343 | 691.4763 |
| 2024 | 5.5878 | 3.9856 | 6.0741 | 0.0203 | 1.2922 | 0.1471 | 1.4394 | 0.3494 | 0.1462 | 0.4956 | 0.0000 | 1,888.3821 | 1,888.3821 | 0.1002 | 0.1321 | 1,930.2579 |
| 2025 | 5.5380 | 3.9378 | 5.8262 | 0.0198 | 1.2873 | 0.1463 | 1.4336 | 0.3480 | 0.1454 | 0.4935 | 0.0000 | 1,848.2102 | 1,848.2102 | 0.0969 | 0.1279 | 1,888.7594 |
| 2026 | 2.9635 | 1.9689 | 2.8625 | 9.8100e-003 | 0.6527 | 0.0738 | 0.7265 | 0.1764 | 0.0734 | 0.2498 | 0.0000 | 918.0645 | 918.0645 | 0.0478 | 0.0626 | 937.9225 |
| **Maximum** | **5.5878** | **3.9856** | **6.0741** | **0.0203** | **1.2922** | **0.1471** | **1.4394** | **0.4281** | **0.1462** | **0.5181** | **0.0000** | **1,888.3821** | **1,888.3821** | **0.1002** | **0.1321** | **1,930.2579** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **2.48** | **-1.92** | **-5.46** | **0.00** | **0.00** | **-36.98** | **-2.70** | **0.00** | **-44.79** | **-8.71** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **1-20-2023** | **4-19-2023** | 0.9085 | 0.6029 |
| **2** | **4-20-2023** | **7-19-2023** | 0.1762 | 0.1468 |
| **3** | **7-20-2023** | **10-19-2023** | 0.8160 | 0.7866 |
| **4** | **10-20-2023** | **1-19-2024** | 2.4633 | 2.4337 |
| **5** | **1-20-2024** | **4-19-2024** | 2.3882 | 2.3883 |
| **6** | **4-20-2024** | **7-19-2024** | 2.3671 | 2.3671 |
| **7** | **7-20-2024** | **10-19-2024** | 2.3987 | 2.3987 |
| **8** | **10-20-2024** | **1-19-2025** | 2.4089 | 2.4169 |

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| | | | | |
|---|---|---|---|---|
| **9** | **1-20-2025** | **4-19-2025** | 2.3088 | 2.3462 |
| **10** | **4-20-2025** | **7-19-2025** | 2.3135 | 2.3513 |
| **11** | **7-20-2025** | **10-19-2025** | 2.3445 | 2.3827 |
| **12** | **10-20-2025** | **1-19-2026** | 2.3628 | 2.4010 |
| **13** | **1-20-2026** | **4-19-2026** | 2.2946 | 2.3319 |
| **14** | **4-20-2026** | **7-19-2026** | 2.0735 | 2.1047 |
| | | **Highest** | 2.4633 | 2.4337 |

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 9.7083 | 0.7164 | 27.1559 | 0.0707 | | 3.4819 | 3.4819 | | 3.4819 | 3.4819 | 458.4448 | 362.5042 | 820.9490 | 2.1594 | 6.4600e-003 | 876.8593 |
| Energy | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,623.2346 | 1,623.2346 | 0.1160 | 0.0305 | 1,635.2306 |
| Mobile | 3.1972 | 5.6061 | 30.2589 | 0.0754 | 8.1872 | 0.0650 | 8.2523 | 2.1902 | 0.0611 | 2.2513 | 0.0000 | 7,262.7429 | 7,262.7429 | 0.3501 | 0.3886 | 7,387.2936 |
| Stationary | 4.9000e-004 | 1.3800e-003 | 1.2600e-003 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.2296 | 0.2296 | 3.0000e-005 | 0.0000 | 0.2304 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 197.3356 | 0.0000 | 197.3356 | 11.6622 | 0.0000 | 488.8907 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 16.8257 | 40.3504 | 57.1761 | 1.7347 | 0.0416 | 112.9391 |
| **Total** | **13.0098** | **7.2113** | **57.7936** | **0.1518** | **8.1872** | **3.6187** | **11.8060** | **2.1902** | **3.6148** | **5.8050** | **672.6061** | **9,289.0617** | **9,961.6678** | **16.0224** | **0.4672** | **10,501.4436** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 7.3972 | 0.3741 | 6.1682 | 2.2600e-003 | | 0.0581 | 0.0581 | | 0.0581 | 0.0581 | 0.0000 | 362.5042 | 362.5042 | 0.0162 | 6.4600e-003 | 364.8361 |
| Energy | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,623.2346 | 1,623.2346 | 0.1160 | 0.0305 | 1,635.2306 |
| Mobile | 3.0791 | 5.2609 | 28.3992 | 0.0695 | 7.5297 | 0.0602 | 7.5899 | 2.0143 | 0.0565 | 2.0709 | 0.0000 | 6,698.1420 | 6,698.1420 | 0.3320 | 0.3633 | 6,814.7170 |
| Stationary | 4.9000e-004 | 1.3800e-003 | 1.2600e-003 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.2296 | 0.2296 | 3.0000e-005 | 0.0000 | 0.2304 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 197.3356 | 0.0000 | 197.3356 | 11.6622 | 0.0000 | 488.8907 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 16.8257 | 37.5907 | 54.4164 | 1.7342 | 0.0415 | 110.1521 |
| **Total** | **10.5806** | **6.5237** | **34.9462** | **0.0775** | **7.5297** | **0.1901** | **7.7198** | **2.0143** | **0.1865** | **2.2008** | **214.1613** | **8,721.7011** | **8,935.8624** | **13.8607** | **0.4419** | **9,414.0569** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **18.67** | **9.54** | **39.53** | **48.97** | **8.03** | **94.75** | **34.61** | **8.03** | **94.84** | **62.09** | **68.16** | **6.11** | **10.30** | **13.49** | **5.42** | **10.35** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/20/2023 | 4/13/2023 | 5 | 60 | |
| 2 | Grading | Grading | 7/7/2023 | 8/3/2023 | 5 | 20 | |

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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | Paving | Paving | 8/4/2023 | 9/28/2023 | 5 | 40 | |
| 4 | Building Construction | Building Construction | 9/29/2023 | 7/2/2026 | 5 | 720 | |
| 5 | Architectural Coating | Architectural Coating | 10/13/2023 | 7/16/2026 | 5 | 720 | |

**Acres of Grading (Site Preparation Phase): 90**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 21.4**

**Residential Indoor: 2,967,030; Residential Outdoor: 989,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 55,825 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

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**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 825.00 | 294.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 165.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5897 | 0.0000 | 0.5897 | 0.3031 | 0.0000 | 0.3031 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0798 | 0.8257 | 0.5473 | 1.1400e-003 | | 0.0380 | 0.0380 | | 0.0349 | 0.0349 | 0.0000 | 100.3521 | 100.3521 | 0.0325 | 0.0000 | 101.1635 |
| **Total** | **0.0798** | **0.8257** | **0.5473** | **1.1400e-003** | **0.5897** | **0.0380** | **0.6277** | **0.3031** | **0.0349** | **0.3380** | **0.0000** | **100.3521** | **100.3521** | **0.0325** | **0.0000** | **101.1635** |

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7000e-003 | 1.1400e-003 | 0.0134 | 4.0000e-005 | 4.3200e-003 | 2.0000e-005 | 4.3400e-003 | 1.1500e-003 | 2.0000e-005 | 1.1700e-003 | 0.0000 | 3.4960 | 3.4960 | 1.1000e-004 | 1.0000e-004 | 3.5290 |
| **Total** | **1.7000e-003** | **1.1400e-003** | **0.0134** | **4.0000e-005** | **4.3200e-003** | **2.0000e-005** | **4.3400e-003** | **1.1500e-003** | **2.0000e-005** | **1.1700e-003** | **0.0000** | **3.4960** | **3.4960** | **1.1000e-004** | **1.0000e-004** | **3.5290** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5897 | 0.0000 | 0.5897 | 0.3031 | 0.0000 | 0.3031 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0279 | 0.5720 | 0.6888 | 1.1400e-003 | | 0.0284 | 0.0284 | | 0.0284 | 0.0284 | 0.0000 | 100.3520 | 100.3520 | 0.0325 | 0.0000 | 101.1634 |
| **Total** | **0.0279** | **0.5720** | **0.6888** | **1.1400e-003** | **0.5897** | **0.0284** | **0.6181** | **0.3031** | **0.0284** | **0.3315** | **0.0000** | **100.3520** | **100.3520** | **0.0325** | **0.0000** | **101.1634** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.7000e-003 | 1.1400e-003 | 0.0134 | 4.0000e-005 | 4.3200e-003 | 2.0000e-005 | 4.3400e-003 | 1.1500e-003 | 2.0000e-005 | 1.1700e-003 | 0.0000 | 3.4960 | 3.4960 | 1.1000e-004 | 1.0000e-004 | 3.5290 |
| **Total** | **1.7000e-003** | **1.1400e-003** | **0.0134** | **4.0000e-005** | **4.3200e-003** | **2.0000e-005** | **4.3400e-003** | **1.1500e-003** | **2.0000e-005** | **1.1700e-003** | **0.0000** | **3.4960** | **3.4960** | **1.1000e-004** | **1.0000e-004** | **3.5290** |

## 3.3 Grading - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0920 | 0.0000 | 0.0920 | 0.0365 | 0.0000 | 0.0365 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0332 | 0.3452 | 0.2805 | 6.2000e-004 | | 0.0142 | 0.0142 | | 0.0131 | 0.0131 | 0.0000 | 54.5352 | 54.5352 | 0.0176 | 0.0000 | 54.9762 |
| **Total** | **0.0332** | **0.3452** | **0.2805** | **6.2000e-004** | **0.0920** | **0.0142** | **0.1063** | **0.0365** | **0.0131** | **0.0497** | **0.0000** | **54.5352** | **54.5352** | **0.0176** | **0.0000** | **54.9762** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.3000e-004 | 4.2000e-004 | 4.9800e-003 | 1.0000e-005 | 1.6000e-003 | 1.0000e-005 | 1.6100e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.2948 | 1.2948 | 4.0000e-005 | 4.0000e-005 | 1.3070 |
| **Total** | **6.3000e-004** | **4.2000e-004** | **4.9800e-003** | **1.0000e-005** | **1.6000e-003** | **1.0000e-005** | **1.6100e-003** | **4.2000e-004** | **1.0000e-005** | **4.3000e-004** | **0.0000** | **1.2948** | **1.2948** | **4.0000e-005** | **4.0000e-005** | **1.3070** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0920 | 0.0000 | 0.0920 | 0.0365 | 0.0000 | 0.0365 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0152 | 0.2998 | 0.3672 | 6.2000e-004 | | 0.0130 | 0.0130 | | 0.0130 | 0.0130 | 0.0000 | 54.5351 | 54.5351 | 0.0176 | 0.0000 | 54.9761 |
| **Total** | **0.0152** | **0.2998** | **0.3672** | **6.2000e-004** | **0.0920** | **0.0130** | **0.1050** | **0.0365** | **0.0130** | **0.0495** | **0.0000** | **54.5351** | **54.5351** | **0.0176** | **0.0000** | **54.9761** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 6.3000e-004 | 4.2000e-004 | 4.9800e-003 | 1.0000e-005 | 1.6000e-003 | 1.0000e-005 | 1.6100e-003 | 4.2000e-004 | 1.0000e-005 | 4.3000e-004 | 0.0000 | 1.2948 | 1.2948 | 4.0000e-005 | 4.0000e-005 | 1.3070 |
| **Total** | **6.3000e-004** | **4.2000e-004** | **4.9800e-003** | **1.0000e-005** | **1.6000e-003** | **1.0000e-005** | **1.6100e-003** | **4.2000e-004** | **1.0000e-005** | **4.3000e-004** | **0.0000** | **1.2948** | **1.2948** | **4.0000e-005** | **4.0000e-005** | **1.3070** |

## 3.4 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0207 | 0.2038 | 0.2917 | 4.6000e-004 | | 0.0102 | 0.0102 | | 9.3900e-003 | 9.3900e-003 | 0.0000 | 40.0537 | 40.0537 | 0.0130 | 0.0000 | 40.3776 |
| Paving | 0.0280 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0487** | **0.2038** | **0.2917** | **4.6000e-004** | | **0.0102** | **0.0102** | | **9.3900e-003** | **9.3900e-003** | **0.0000** | **40.0537** | **40.0537** | **0.0130** | **0.0000** | **40.3776** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 9.4000e-004 | 6.3000e-004 | 7.4700e-003 | 2.0000e-005 | 2.4000e-003 | 1.0000e-005 | 2.4100e-003 | 6.4000e-004 | 1.0000e-005 | 6.5000e-004 | 0.0000 | 1.9422 | 1.9422 | 6.0000e-005 | 6.0000e-005 | 1.9606 |
| **Total** | **9.4000e-004** | **6.3000e-004** | **7.4700e-003** | **2.0000e-005** | **2.4000e-003** | **1.0000e-005** | **2.4100e-003** | **6.4000e-004** | **1.0000e-005** | **6.5000e-004** | **0.0000** | **1.9422** | **1.9422** | **6.0000e-005** | **6.0000e-005** | **1.9606** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0112 | 0.2259 | 0.3459 | 4.6000e-004 | | 0.0122 | 0.0122 | | 0.0122 | 0.0122 | 0.0000 | 40.0537 | 40.0537 | 0.0130 | 0.0000 | 40.3775 |
| Paving | 0.0280 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0393** | **0.2259** | **0.3459** | **4.6000e-004** | | **0.0122** | **0.0122** | | **0.0122** | **0.0122** | **0.0000** | **40.0537** | **40.0537** | **0.0130** | **0.0000** | **40.3775** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 9.4000e-004 | 6.3000e-004 | 7.4700e-003 | 2.0000e-005 | 2.4000e-003 | 1.0000e-005 | 2.4100e-003 | 6.4000e-004 | 1.0000e-005 | 6.5000e-004 | 0.0000 | 1.9422 | 1.9422 | 6.0000e-005 | 6.0000e-005 | 1.9606 |
| **Total** | **9.4000e-004** | **6.3000e-004** | **7.4700e-003** | **2.0000e-005** | **2.4000e-003** | **1.0000e-005** | **2.4100e-003** | **6.4000e-004** | **1.0000e-005** | **6.5000e-004** | **0.0000** | **1.9422** | **1.9422** | **6.0000e-005** | **6.0000e-005** | **1.9606** |

## 3.5 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0519 | 0.4747 | 0.5361 | 8.9000e-004 | | 0.0231 | 0.0231 | | 0.0217 | 0.0217 | 0.0000 | 76.4956 | 76.4956 | 0.0182 | 0.0000 | 76.9505 |
| **Total** | **0.0519** | **0.4747** | **0.5361** | **8.9000e-004** | | **0.0231** | **0.0231** | | **0.0217** | **0.0217** | **0.0000** | **76.4956** | **76.4956** | **0.0182** | **0.0000** | **76.9505** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0107 | 0.4289 | 0.1314 | 1.9600e-003 | 0.0643 | 2.7700e-003 | 0.0671 | 0.0186 | 2.6500e-003 | 0.0212 | 0.0000 | 187.5558 | 187.5558 | 8.0000e-004 | 0.0281 | 195.9383 |
| Worker | 0.0855 | 0.0574 | 0.6776 | 1.9000e-003 | 0.2177 | 1.1500e-003 | 0.2188 | 0.0579 | 1.0600e-003 | 0.0589 | 0.0000 | 176.2562 | 176.2562 | 5.4900e-003 | 5.1300e-003 | 177.9214 |
| **Total** | **0.0962** | **0.4862** | **0.8089** | **3.8600e-003** | **0.2820** | **3.9200e-003** | **0.2859** | **0.0764** | **3.7100e-003** | **0.0802** | **0.0000** | **363.8120** | **363.8120** | **6.2900e-003** | **0.0332** | **373.8597** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0222 | 0.4695 | 0.5898 | 8.9000e-004 | | 0.0298 | 0.0298 | | 0.0298 | 0.0298 | 0.0000 | 76.4955 | 76.4955 | 0.0182 | 0.0000 | 76.9504 |
| **Total** | **0.0222** | **0.4695** | **0.5898** | **8.9000e-004** | | **0.0298** | **0.0298** | | **0.0298** | **0.0298** | **0.0000** | **76.4955** | **76.4955** | **0.0182** | **0.0000** | **76.9504** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0107 | 0.4289 | 0.1314 | 1.9600e-003 | 0.0643 | 2.7700e-003 | 0.0671 | 0.0186 | 2.6500e-003 | 0.0212 | 0.0000 | 187.5558 | 187.5558 | 8.0000e-004 | 0.0281 | 195.9383 |
| Worker | 0.0855 | 0.0574 | 0.6776 | 1.9000e-003 | 0.2177 | 1.1500e-003 | 0.2188 | 0.0579 | 1.0600e-003 | 0.0589 | 0.0000 | 176.2562 | 176.2562 | 5.4900e-003 | 5.1300e-003 | 177.9214 |
| **Total** | **0.0962** | **0.4862** | **0.8089** | **3.8600e-003** | **0.2820** | **3.9200e-003** | **0.2859** | **0.0764** | **3.7100e-003** | **0.0802** | **0.0000** | **363.8120** | **363.8120** | **6.2900e-003** | **0.0332** | **373.8597** |

## 3.5 Building Construction - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |
| **Total** | **0.1928** | **1.7611** | **2.1179** | **3.5300e-003** | | **0.0803** | **0.0803** | | **0.0756** | **0.0756** | **0.0000** | **303.7223** | **303.7223** | **0.0718** | **0.0000** | **305.5179** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0414 | 1.7036 | 0.5088 | 7.6400e-003 | 0.2554 | 0.0111 | 0.2665 | 0.0738 | 0.0106 | 0.0844 | 0.0000 | 732.6435 | 732.6435 | 3.0300e-003 | 0.1096 | 765.3688 |
| Worker | 0.3129 | 0.2005 | 2.4865 | 7.2900e-003 | 0.8640 | 4.3400e-003 | 0.8684 | 0.2297 | 4.0000e-003 | 0.2337 | 0.0000 | 682.1408 | 682.1408 | 0.0196 | 0.0188 | 688.2308 |
| **Total** | **0.3542** | **1.9041** | **2.9953** | **0.0149** | **1.1194** | **0.0154** | **1.1349** | **0.3034** | **0.0146** | **0.3181** | **0.0000** | **1,414.7843** | **1,414.7843** | **0.0226** | **0.1284** | **1,453.5996** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0883 | 1.8636 | 2.3415 | 3.5300e-003 | | 0.1184 | 0.1184 | | 0.1184 | 0.1184 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |
| **Total** | **0.0883** | **1.8636** | **2.3415** | **3.5300e-003** | | **0.1184** | **0.1184** | | **0.1184** | **0.1184** | **0.0000** | **303.7220** | **303.7220** | **0.0718** | **0.0000** | **305.5175** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0414 | 1.7036 | 0.5088 | 7.6400e-003 | 0.2554 | 0.0111 | 0.2665 | 0.0738 | 0.0106 | 0.0844 | 0.0000 | 732.6435 | 732.6435 | 3.0300e-003 | 0.1096 | 765.3688 |
| Worker | 0.3129 | 0.2005 | 2.4865 | 7.2900e-003 | 0.8640 | 4.3400e-003 | 0.8684 | 0.2297 | 4.0000e-003 | 0.2337 | 0.0000 | 682.1408 | 682.1408 | 0.0196 | 0.0188 | 688.2308 |
| **Total** | **0.3542** | **1.9041** | **2.9953** | **0.0149** | **1.1194** | **0.0154** | **1.1349** | **0.3034** | **0.0146** | **0.3181** | **0.0000** | **1,414.7843** | **1,414.7843** | **0.0226** | **0.1284** | **1,453.5996** |

## 3.5 Building Construction - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1785 | 1.6273 | 2.0991 | 3.5200e-003 | | 0.0689 | 0.0689 | | 0.0648 | 0.0648 | 0.0000 | 302.6549 | 302.6549 | 0.0711 | 0.0000 | 304.4335 |
| **Total** | **0.1785** | **1.6273** | **2.0991** | **3.5200e-003** | | **0.0689** | **0.0689** | | **0.0648** | **0.0648** | **0.0000** | **302.6549** | **302.6549** | **0.0711** | **0.0000** | **304.4335** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0402 | 1.6914 | 0.4962 | 7.4800e-003 | 0.2544 | 0.0111 | 0.2655 | 0.0735 | 0.0106 | 0.0841 | 0.0000 | 716.5597 | 716.5597 | 2.9000e-003 | 0.1071 | 748.5375 |
| Worker | 0.2888 | 0.1774 | 2.2986 | 7.0200e-003 | 0.8607 | 4.1200e-003 | 0.8649 | 0.2288 | 3.7900e-003 | 0.2326 | 0.0000 | 663.0634 | 663.0634 | 0.0176 | 0.0174 | 668.6861 |
| **Total** | **0.3291** | **1.8688** | **2.7948** | **0.0145** | **1.1152** | **0.0152** | **1.1303** | **0.3023** | **0.0144** | **0.3167** | **0.0000** | **1,379.6231** | **1,379.6231** | **0.0205** | **0.1245** | **1,417.2237** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0879 | 1.8565 | 2.3325 | 3.5200e-003 | | 0.1179 | 0.1179 | | 0.1179 | 0.1179 | 0.0000 | 302.6545 | 302.6545 | 0.0711 | 0.0000 | 304.4331 |
| **Total** | **0.0879** | **1.8565** | **2.3325** | **3.5200e-003** | | **0.1179** | **0.1179** | | **0.1179** | **0.1179** | **0.0000** | **302.6545** | **302.6545** | **0.0711** | **0.0000** | **304.4331** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0402 | 1.6914 | 0.4962 | 7.4800e-003 | 0.2544 | 0.0111 | 0.2655 | 0.0735 | 0.0106 | 0.0841 | 0.0000 | 716.5597 | 716.5597 | 2.9000e-003 | 0.1071 | 748.5375 |
| Worker | 0.2888 | 0.1774 | 2.2986 | 7.0200e-003 | 0.8607 | 4.1200e-003 | 0.8649 | 0.2288 | 3.7900e-003 | 0.2326 | 0.0000 | 663.0634 | 663.0634 | 0.0176 | 0.0174 | 668.6861 |
| **Total** | **0.3291** | **1.8688** | **2.7948** | **0.0145** | **1.1152** | **0.0152** | **1.1303** | **0.3023** | **0.0144** | **0.3167** | **0.0000** | **1,379.6231** | **1,379.6231** | **0.0205** | **0.1245** | **1,417.2237** |

## 3.5 Building Construction - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0896 | 0.8168 | 1.0536 | 1.7700e-003 | | 0.0346 | 0.0346 | | 0.0325 | 0.0325 | 0.0000 | 151.9072 | 151.9072 | 0.0357 | 0.0000 | 152.8000 |
| **Total** | **0.0896** | **0.8168** | **1.0536** | **1.7700e-003** | | **0.0346** | **0.0346** | | **0.0325** | **0.0325** | **0.0000** | **151.9072** | **151.9072** | **0.0357** | **0.0000** | **152.8000** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0198 | 0.8443 | 0.2447 | 3.6800e-003 | 0.1277 | 5.5200e-003 | 0.1332 | 0.0369 | 5.2800e-003 | 0.0422 | 0.0000 | 352.8922 | 352.8922 | 1.4000e-003 | 0.0527 | 368.6252 |
| Worker | 0.1351 | 0.0799 | 1.0844 | 3.4100e-003 | 0.4320 | 1.9800e-003 | 0.4340 | 0.1148 | 1.8200e-003 | 0.1166 | 0.0000 | 325.2493 | 325.2493 | 8.0000e-003 | 8.1900e-003 | 327.8889 |
| **Total** | **0.1549** | **0.9242** | **1.3291** | **7.0900e-003** | **0.5597** | **7.5000e-003** | **0.5672** | **0.1517** | **7.1000e-003** | **0.1588** | **0.0000** | **678.1415** | **678.1415** | **9.4000e-003** | **0.0609** | **696.5140** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0441 | 0.9318 | 1.1707 | 1.7700e-003 | | 0.0592 | 0.0592 | | 0.0592 | 0.0592 | 0.0000 | 151.9071 | 151.9071 | 0.0357 | 0.0000 | 152.7998 |
| **Total** | **0.0441** | **0.9318** | **1.1707** | **1.7700e-003** | | **0.0592** | **0.0592** | | **0.0592** | **0.0592** | **0.0000** | **151.9071** | **151.9071** | **0.0357** | **0.0000** | **152.7998** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0198 | 0.8443 | 0.2447 | 3.6800e-003 | 0.1277 | 5.5200e-003 | 0.1332 | 0.0369 | 5.2800e-003 | 0.0422 | 0.0000 | 352.8922 | 352.8922 | 1.4000e-003 | 0.0527 | 368.6252 |
| Worker | 0.1351 | 0.0799 | 1.0844 | 3.4100e-003 | 0.4320 | 1.9800e-003 | 0.4340 | 0.1148 | 1.8200e-003 | 0.1166 | 0.0000 | 325.2493 | 325.2493 | 8.0000e-003 | 8.1900e-003 | 327.8889 |
| **Total** | **0.1549** | **0.9242** | **1.3291** | **7.0900e-003** | **0.5597** | **7.5000e-003** | **0.5672** | **0.1517** | **7.1000e-003** | **0.1588** | **0.0000** | **678.1415** | **678.1415** | **9.4000e-003** | **0.0609** | **696.5140** |

## 3.6 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0847 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.3700e-003 | 0.0365 | 0.0507 | 8.0000e-005 | | 1.9800e-003 | 1.9800e-003 | | 1.9800e-003 | 1.9800e-003 | 0.0000 | 7.1491 | 7.1491 | 4.3000e-004 | 0.0000 | 7.1598 |
| **Total** | **1.0901** | **0.0365** | **0.0507** | **8.0000e-005** | | **1.9800e-003** | **1.9800e-003** | | **1.9800e-003** | **1.9800e-003** | **0.0000** | **7.1491** | **7.1491** | **4.3000e-004** | **0.0000** | **7.1598** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0145 | 9.7300e-003 | 0.1150 | 3.2000e-004 | 0.0369 | 2.0000e-004 | 0.0371 | 9.8200e-003 | 1.8000e-004 | 0.0100 | 0.0000 | 29.9101 | 29.9101 | 9.3000e-004 | 8.7000e-004 | 30.1927 |
| **Total** | **0.0145** | **9.7300e-003** | **0.1150** | **3.2000e-004** | **0.0369** | **2.0000e-004** | **0.0371** | **9.8200e-003** | **1.8000e-004** | **0.0100** | **0.0000** | **29.9101** | **29.9101** | **9.3000e-004** | **8.7000e-004** | **30.1927** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.0847 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.6600e-003 | 0.0380 | 0.0513 | 8.0000e-005 | | 2.6600e-003 | 2.6600e-003 | | 2.6600e-003 | 2.6600e-003 | 0.0000 | 7.1491 | 7.1491 | 4.3000e-004 | 0.0000 | 7.1598 |
| **Total** | **1.0864** | **0.0380** | **0.0513** | **8.0000e-005** | | **2.6600e-003** | **2.6600e-003** | | **2.6600e-003** | **2.6600e-003** | **0.0000** | **7.1491** | **7.1491** | **4.3000e-004** | **0.0000** | **7.1598** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0145 | 9.7300e-003 | 0.1150 | 3.2000e-004 | 0.0369 | 2.0000e-004 | 0.0371 | 9.8200e-003 | 1.8000e-004 | 0.0100 | 0.0000 | 29.9101 | 29.9101 | 9.3000e-004 | 8.7000e-004 | 30.1927 |
| **Total** | **0.0145** | **9.7300e-003** | **0.1150** | **3.2000e-004** | **0.0369** | **2.0000e-004** | **0.0371** | **9.8200e-003** | **1.8000e-004** | **0.0100** | **0.0000** | **29.9101** | **29.9101** | **9.3000e-004** | **8.7000e-004** | **30.1927** |

## 3.6 Architectural Coating - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 5.0749 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0237 | 0.1597 | 0.2371 | 3.9000e-004 | | 7.9800e-003 | 7.9800e-003 | | 7.9800e-003 | 7.9800e-003 | 0.0000 | 33.4476 | 33.4476 | 1.8800e-003 | 0.0000 | 33.4947 |
| **Total** | **5.0986** | **0.1597** | **0.2371** | **3.9000e-004** | | **7.9800e-003** | **7.9800e-003** | | **7.9800e-003** | **7.9800e-003** | **0.0000** | **33.4476** | **33.4476** | **1.8800e-003** | **0.0000** | **33.4947** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0626 | 0.0401 | 0.4973 | 1.4600e-003 | 0.1728 | 8.7000e-004 | 0.1737 | 0.0459 | 8.0000e-004 | 0.0467 | 0.0000 | 136.4282 | 136.4282 | 3.9200e-003 | 3.7600e-003 | 137.6462 |
| **Total** | **0.0626** | **0.0401** | **0.4973** | **1.4600e-003** | **0.1728** | **8.7000e-004** | **0.1737** | **0.0459** | **8.0000e-004** | **0.0467** | **0.0000** | **136.4282** | **136.4282** | **3.9200e-003** | **3.7600e-003** | **137.6462** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 5.0749 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7900e-003 | 0.1778 | 0.2401 | 3.9000e-004 | | 0.0125 | 0.0125 | | 0.0125 | 0.0125 | 0.0000 | 33.4476 | 33.4476 | 1.8800e-003 | 0.0000 | 33.4947 |
| **Total** | **5.0827** | **0.1778** | **0.2401** | **3.9000e-004** | | **0.0125** | **0.0125** | | **0.0125** | **0.0125** | **0.0000** | **33.4476** | **33.4476** | **1.8800e-003** | **0.0000** | **33.4947** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0626 | 0.0401 | 0.4973 | 1.4600e-003 | 0.1728 | 8.7000e-004 | 0.1737 | 0.0459 | 8.0000e-004 | 0.0467 | 0.0000 | 136.4282 | 136.4282 | 3.9200e-003 | 3.7600e-003 | 137.6462 |
| **Total** | **0.0626** | **0.0401** | **0.4973** | **1.4600e-003** | **0.1728** | **8.7000e-004** | **0.1737** | **0.0459** | **8.0000e-004** | **0.0467** | **0.0000** | **136.4282** | **136.4282** | **3.9200e-003** | **3.7600e-003** | **137.6462** |

## 3.6 Architectural Coating - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 5.0555 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0223 | 0.1495 | 0.2361 | 3.9000e-004 | | 6.7200e-003 | 6.7200e-003 | | 6.7200e-003 | 6.7200e-003 | 0.0000 | 33.3200 | 33.3200 | 1.8200e-003 | 0.0000 | 33.3654 |
| **Total** | **5.0778** | **0.1495** | **0.2361** | **3.9000e-004** | | **6.7200e-003** | **6.7200e-003** | | **6.7200e-003** | **6.7200e-003** | **0.0000** | **33.3200** | **33.3200** | **1.8200e-003** | **0.0000** | **33.3654** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0578 | 0.0355 | 0.4597 | 1.4000e-003 | 0.1722 | 8.2000e-004 | 0.1730 | 0.0458 | 7.6000e-004 | 0.0465 | 0.0000 | 132.6127 | 132.6127 | 3.5100e-003 | 3.4800e-003 | 133.7372 |
| **Total** | **0.0578** | **0.0355** | **0.4597** | **1.4000e-003** | **0.1722** | **8.2000e-004** | **0.1730** | **0.0458** | **7.6000e-004** | **0.0465** | **0.0000** | **132.6127** | **132.6127** | **3.5100e-003** | **3.4800e-003** | **133.7372** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 5.0555 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.7600e-003 | 0.1771 | 0.2391 | 3.9000e-004 | | 0.0124 | 0.0124 | | 0.0124 | 0.0124 | 0.0000 | 33.3199 | 33.3199 | 1.8200e-003 | 0.0000 | 33.3654 |
| **Total** | **5.0633** | **0.1771** | **0.2391** | **3.9000e-004** | | **0.0124** | **0.0124** | | **0.0124** | **0.0124** | **0.0000** | **33.3199** | **33.3199** | **1.8200e-003** | **0.0000** | **33.3654** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0578 | 0.0355 | 0.4597 | 1.4000e-003 | 0.1722 | 8.2000e-004 | 0.1730 | 0.0458 | 7.6000e-004 | 0.0465 | 0.0000 | 132.6127 | 132.6127 | 3.5100e-003 | 3.4800e-003 | 133.7372 |
| **Total** | **0.0578** | **0.0355** | **0.4597** | **1.4000e-003** | **0.1722** | **8.2000e-004** | **0.1730** | **0.0458** | **7.6000e-004** | **0.0465** | **0.0000** | **132.6127** | **132.6127** | **3.5100e-003** | **3.4800e-003** | **133.7372** |

## 3.6 Architectural Coating - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 2.7311 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0121 | 0.0808 | 0.1275 | 2.1000e-004 | | 3.6300e-003 | 3.6300e-003 | | 3.6300e-003 | 3.6300e-003 | 0.0000 | 18.0004 | 18.0004 | 9.8000e-004 | 0.0000 | 18.0250 |
| **Total** | **2.7432** | **0.0808** | **0.1275** | **2.1000e-004** | | **3.6300e-003** | **3.6300e-003** | | **3.6300e-003** | **3.6300e-003** | **0.0000** | **18.0004** | **18.0004** | **9.8000e-004** | **0.0000** | **18.0250** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0291 | 0.0172 | 0.2334 | 7.3000e-004 | 0.0930 | 4.3000e-004 | 0.0934 | 0.0247 | 3.9000e-004 | 0.0251 | 0.0000 | 70.0155 | 70.0155 | 1.7200e-003 | 1.7600e-003 | 70.5837 |
| **Total** | **0.0291** | **0.0172** | **0.2334** | **7.3000e-004** | **0.0930** | **4.3000e-004** | **0.0934** | **0.0247** | **3.9000e-004** | **0.0251** | **0.0000** | **70.0155** | **70.0155** | **1.7200e-003** | **1.7600e-003** | **70.5837** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 2.7311 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 4.1900e-003 | 0.0957 | 0.1292 | 2.1000e-004 | | 6.7000e-003 | 6.7000e-003 | | 6.7000e-003 | 6.7000e-003 | 0.0000 | 18.0004 | 18.0004 | 9.8000e-004 | 0.0000 | 18.0250 |
| **Total** | **2.7353** | **0.0957** | **0.1292** | **2.1000e-004** | | **6.7000e-003** | **6.7000e-003** | | **6.7000e-003** | **6.7000e-003** | **0.0000** | **18.0004** | **18.0004** | **9.8000e-004** | **0.0000** | **18.0250** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

### 3.6 Architectural Coating - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0291 | 0.0172 | 0.2334 | 7.3000e-004 | 0.0930 | 4.3000e-004 | 0.0934 | 0.0247 | 3.9000e-004 | 0.0251 | 0.0000 | 70.0155 | 70.0155 | 1.7200e-003 | 1.7600e-003 | 70.5837 |
| **Total** | **0.0291** | **0.0172** | **0.2334** | **7.3000e-004** | **0.0930** | **4.3000e-004** | **0.0934** | **0.0247** | **3.9000e-004** | **0.0251** | **0.0000** | **70.0155** | **70.0155** | **1.7200e-003** | **1.7600e-003** | **70.5837** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 3.0791 | 5.2609 | 28.3992 | 0.0695 | 7.5297 | 0.0602 | 7.5899 | 2.0143 | 0.0565 | 2.0709 | 0.0000 | 6,698.1420 | 6,698.1420 | 0.3320 | 0.3633 | 6,814.7170 |
| Unmitigated | 3.1972 | 5.6061 | 30.2589 | 0.0754 | 8.1872 | 0.0650 | 8.2523 | 2.1902 | 0.0611 | 2.2513 | 0.0000 | 7,262.7429 | 7,262.7429 | 0.3501 | 0.3886 | 7,387.2936 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 7,741.14 | 7,741.14 | 7741.14 | 21,834,370 | 20,080,856 |
| Total | 7,741.14 | 7,741.14 | 7,741.14 | 21,834,370 | 20,080,856 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 10.51 | 7.11 | 7.30 | 45.60 | 19.00 | 35.40 | 86 | 11 | 3 |

## 4.4 Fleet Mix

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Other Asphalt Surfaces | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Single Family Housing | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 595.5399 | 595.5399 | 0.0964 | 0.0117 | 601.4288 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 595.5399 | 595.5399 | 0.0964 | 0.0117 | 601.4288 |
| NaturalGas Mitigated | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,027.6947 | 1,027.6947 | 0.0197 | 0.0188 | 1,033.8018 |
| NaturalGas Unmitigated | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,027.6947 | 1,027.6947 | 0.0197 | 0.0188 | 1,033.8018 |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 1.92583e+007 | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,027.6947 | 1,027.6947 | 0.0197 | 0.0188 | 1,033.8018 |
| **Total** | | **0.1038** | **0.8874** | **0.3776** | **5.6600e-003** | | **0.0718** | **0.0718** | | **0.0718** | **0.0718** | **0.0000** | **1,027.6947** | **1,027.6947** | **0.0197** | **0.0188** | **1,033.8018** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 1.92583e+007 | 0.1038 | 0.8874 | 0.3776 | 5.6600e-003 | | 0.0718 | 0.0718 | | 0.0718 | 0.0718 | 0.0000 | 1,027.6947 | 1,027.6947 | 0.0197 | 0.0188 | 1,033.8018 |
| **Total** | | **0.1038** | **0.8874** | **0.3776** | **5.6600e-003** | | **0.0718** | **0.0718** | | **0.0718** | **0.0718** | **0.0000** | **1,027.6947** | **1,027.6947** | **0.0197** | **0.0188** | **1,033.8018** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 6.43662e+006 | 595.5399 | 0.0964 | 0.0117 | 601.4288 |
| **Total** | | **595.5399** | **0.0964** | **0.0117** | **601.4288** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.3 Energy by Land Use - Electricity

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 6.43662e+006 | 595.5399 | 0.0964 | 0.0117 | 601.4288 |
| **Total** | | **595.5399** | **0.0964** | **0.0117** | **601.4288** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 7.3972 | 0.3741 | 6.1682 | 2.2600e-003 | | 0.0581 | 0.0581 | | 0.0581 | 0.0581 | 0.0000 | 362.5042 | 362.5042 | 0.0162 | 6.4600e-003 | 364.8361 |
| Unmitigated | 9.7083 | 0.7164 | 27.1559 | 0.0707 | | 3.4819 | 3.4819 | | 3.4819 | 3.4819 | 458.4448 | 362.5042 | 820.9490 | 2.1594 | 6.4600e-003 | 876.8593 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.3946 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 5.7856 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 2.3467 | 0.6469 | 21.1173 | 0.0704 | | 3.4484 | 3.4484 | | 3.4484 | 3.4484 | 458.4448 | 352.6308 | 811.0756 | 2.1499 | 6.4600e-003 | 866.7495 |
| Landscaping | 0.1813 | 0.0696 | 6.0386 | 3.2000e-004 | | 0.0335 | 0.0335 | | 0.0335 | 0.0335 | 0.0000 | 9.8734 | 9.8734 | 9.4600e-003 | 0.0000 | 10.1098 |
| **Total** | **9.7083** | **0.7164** | **27.1559** | **0.0707** | | **3.4819** | **3.4819** | | **3.4819** | **3.4819** | **458.4448** | **362.5042** | **820.9490** | **2.1594** | **6.4600e-003** | **876.8593** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 1.3946 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 5.7856 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0356 | 0.3045 | 0.1296 | 1.9400e-003 | | 0.0246 | 0.0246 | | 0.0246 | 0.0246 | 0.0000 | 352.6308 | 352.6308 | 6.7600e-003 | 6.4600e-003 | 354.7263 |
| Landscaping | 0.1813 | 0.0696 | 6.0386 | 3.2000e-004 | | 0.0335 | 0.0335 | | 0.0335 | 0.0335 | 0.0000 | 9.8734 | 9.8734 | 9.4600e-003 | 0.0000 | 10.1098 |
| **Total** | **7.3972** | **0.3741** | **6.1682** | **2.2600e-003** | | **0.0581** | **0.0581** | | **0.0581** | **0.0581** | **0.0000** | **362.5042** | **362.5042** | **0.0162** | **6.4600e-003** | **364.8361** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 54.4164 | 1.7342 | 0.0415 | 110.1521 |
| Unmitigated | 57.1761 | 1.7347 | 0.0416 | 112.9391 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 9.17441 | 2.9710 | 4.8000e-004 | 6.0000e-005 | 3.0004 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 53.0354 / 33.4353 | 54.2051 | 1.7342 | 0.0415 | 109.9388 |
| **Total** | | **57.1761** | **1.7347** | **0.0416** | **112.9391** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 7.33953 | 2.3768 | 3.8000e-004 | 5.0000e-005 | 2.4003 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 53.0354 / 26.7483 | 52.0396 | 1.7339 | 0.0415 | 107.7518 |
| **Total** | | **54.4164** | **1.7342** | **0.0416** | **110.1521** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 197.3356 | 11.6622 | 0.0000 | 488.8907 |
| Unmitigated | 197.3356 | 11.6622 | 0.0000 | 488.8907 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 0.66 | 0.1340 | 7.9200e-003 | 0.0000 | 0.3319 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 971.48 | 197.2017 | 11.6543 | 0.0000 | 488.5588 |
| **Total** | | **197.3356** | **11.6622** | **0.0000** | **488.8907** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 0.66 | 0.1340 | 7.9200e-003 | 0.0000 | 0.3319 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 971.48 | 197.2017 | 11.6543 | 0.0000 | 488.5588 |
| **Total** | | **197.3356** | **11.6622** | **0.0000** | **488.8907** |

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

## 10.0 Stationary Equipment

**Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|
| Emergency Generator | 1 | 0.01 | 3 | 201 | 0.73 | Diesel |

**Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

**User Defined Equipment**

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Equipment Type | Number |
|---|---|

## 10.1 Stationary Sources

**Unmitigated/Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Emergency Generator - Diesel (175 - 300 HP) | 4.9000e-004 | 1.3800e-003 | 1.2600e-003 | 0.0000 | | 7.0000e-005 | 7.0000e-005 | | 7.0000e-005 | 7.0000e-005 | 0.0000 | 0.2296 | 0.2296 | 3.0000e-005 | 0.0000 | 0.2304 |
| **Total** | **4.9000e-004** | **1.3800e-003** | **1.2600e-003** | **0.0000** | | **7.0000e-005** | **7.0000e-005** | | **7.0000e-005** | **7.0000e-005** | **0.0000** | **0.2296** | **0.2296** | **3.0000e-005** | **0.0000** | **0.2304** |

## 11.0 Vegetation

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# Yosemite Square Subdivision Project

**San Joaquin Valley Unified APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 16.50 | Acre | 16.50 | 718,740.00 | 0 |
| Other Asphalt Surfaces | 4.90 | Acre | 4.90 | 211,680.00 | 0 |
| City Park | 7.70 | Acre | 7.70 | 335,412.00 | 0 |
| Single Family Housing | 814.00 | Dwelling Unit | 113.40 | 1,465,200.00 | 2582 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.7 | **Precipitation Freq (Days)** | 45 |
| **Climate Zone** | 2 | | | **Operational Year** | 2028 |
| **Utility Company** | Pacific Gas and Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 203.98 | **CH4 Intensity (lb/MWhr)** | 0.033 | **N2O Intensity (lb/MWhr)** | 0.004 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with site plan prepared for the proposed project. 4.86 acres of asphalt surfaces included to represent off-site roadway widening.

Construction Phase - Construction phase timing based on applicant provided AQ Questionnaire. Architectural coating assumed to start two weeks after building construction, and last for the same duration.

Grading -

Vehicle Trips - Trip generation rates and VMT adjusted based on transportation report prepared by Fehr & Peers for the proposed project.

Woodstoves -

Construction Off-road Equipment Mitigation - Based on applicant provided AQ Questionnaire.

Mobile Land Use Mitigation - Based on applicant provided AQ Questionnaire.

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Based on applicant provided AQ Questionnaire.

Water Mitigation - Compliant with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps - Representative of generator for proposed pump station.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 120.00 | 60.00 |
| tblConstructionPhase | NumDays | 310.00 | 20.00 |
| tblConstructionPhase | NumDays | 220.00 | 40.00 |
| tblConstructionPhase | NumDays | 3,100.00 | 720.00 |
| tblConstructionPhase | NumDays | 220.00 | 720.00 |
| tblLandUse | LandUseSquareFeet | 213,444.00 | 211,680.00 |
| tblLandUse | LotAcreage | 264.29 | 113.40 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 201.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.01 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 3.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblVehicleTrips | HO_TL | 7.50 | 7.30 |
| tblVehicleTrips | HS_TL | 7.30 | 7.11 |
| tblVehicleTrips | HW_TL | 10.80 | 10.51 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 9.54 | 9.51 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 8.55 | 9.51 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 9.44 | 9.51 |

## 2.0 Emissions Summary

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 44.4328 | 34.5548 | 50.4423 | 0.1642 | 19.8049 | 1.4253 | 21.0717 | 10.1417 | 1.3113 | 11.3071 | 0.0000 | 16,778.5306 | 16,778.5306 | 1.9485 | 1.1320 | 17,137.4598 |
| 2024 | 44.0265 | 28.8061 | 48.0547 | 0.1608 | 10.1259 | 0.7986 | 10.9245 | 2.7311 | 0.7554 | 3.4865 | 0.0000 | 16,484.5234 | 16,484.5234 | 0.8357 | 1.1017 | 16,833.7140 |
| 2025 | 43.6587 | 27.5265 | 45.9485 | 0.1573 | 10.1259 | 0.7015 | 10.8274 | 2.7311 | 0.6635 | 3.3947 | 0.0000 | 16,189.9716 | 16,189.9716 | 0.8114 | 1.0714 | 16,529.5292 |
| 2026 | 43.4401 | 27.3047 | 44.3947 | 0.1541 | 10.1259 | 0.6994 | 10.8254 | 2.7311 | 0.6616 | 3.3927 | 0.0000 | 15,909.2288 | 15,909.2288 | 0.7944 | 1.0431 | 16,239.9462 |
| **Maximum** | **44.4328** | **34.5548** | **50.4423** | **0.1642** | **19.8049** | **1.4253** | **21.0717** | **10.1417** | **1.3113** | **11.3071** | **0.0000** | **16,778.5306** | **16,778.5306** | **1.9485** | **1.1320** | **17,137.4598** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction (Maximum Daily Emission)

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 43.4018 | 30.0174 | 52.0933 | 0.1642 | 19.8049 | 1.3003 | 20.7518 | 10.1417 | 1.3002 | 11.0885 | 0.0000 | 16,778.5306 | 16,778.5306 | 1.9485 | 1.1320 | 17,137.4598 |
| 2024 | 43.1075 | 29.7266 | 49.7839 | 0.1608 | 10.1259 | 1.1230 | 11.2489 | 2.7311 | 1.1162 | 3.8473 | 0.0000 | 16,484.5234 | 16,484.5234 | 0.8357 | 1.1017 | 16,833.7140 |
| 2025 | 42.8538 | 29.4943 | 47.7609 | 0.1573 | 10.1259 | 1.1211 | 11.2470 | 2.7311 | 1.1144 | 3.8456 | 0.0000 | 16,189.9716 | 16,189.9716 | 0.8114 | 1.0714 | 16,529.5292 |
| 2026 | 42.6352 | 29.2726 | 46.2071 | 0.1541 | 10.1259 | 1.1190 | 11.2449 | 2.7311 | 1.1125 | 3.8436 | 0.0000 | 15,909.2288 | 15,909.2288 | 0.7944 | 1.0431 | 16,239.9462 |
| **Maximum** | **43.4018** | **30.0174** | **52.0933** | **0.1642** | **19.8049** | **1.3003** | **20.7518** | **10.1417** | **1.3002** | **11.0885** | **0.0000** | **16,778.5306** | **16,778.5306** | **1.9485** | **1.1320** | **17,137.4598** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **2.03** | **-0.27** | **-3.71** | **0.00** | **0.00** | **-28.65** | **-1.57** | **0.00** | **-36.90** | **-4.84** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 98.5946 | 16.5501 | 582.1514 | 1.7211 | | 84.4794 | 84.4794 | | 84.4794 | 84.4794 | 12,325.5821 | 9,601.6338 | 21,927.2159 | 57.9171 | 0.1738 | 23,426.9401 |
| Energy | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| Mobile | 21.2064 | 28.9884 | 177.6272 | 0.4402 | 46.2070 | 0.3576 | 46.5645 | 12.3342 | 0.3358 | 12.6700 | | 46,750.4980 | 46,750.4980 | 2.0321 | 2.2962 | 47,485.5588 |
| Stationary | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **120.3734** | **50.4101** | **761.8561** | **2.1923** | **46.2070** | **85.2306** | **131.4375** | **12.3342** | **85.2088** | **97.5430** | **12,325.5821** | **62,561.1590** | **74,886.7410** | **60.0685** | **2.5838** | **77,158.4190** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 42.2277 | 8.1994 | 70.2556 | 0.0510 | | 0.9727 | 0.9727 | | 0.9727 | 0.9727 | 0.0000 | 9,601.6338 | 9,601.6338 | 0.2975 | 0.1738 | 9,660.8683 |
| Energy | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| Mobile | 20.5589 | 27.2123 | 166.0413 | 0.4059 | 42.4961 | 0.3310 | 42.8270 | 11.3437 | 0.3108 | 11.6544 | | 43,107.7623 | 43,107.7623 | 1.9204 | 2.1465 | 43,795.4327 |
| Stationary | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **63.3589** | **40.2834** | **238.3744** | **0.4879** | **42.4961** | **1.6973** | **44.1934** | **11.3437** | **1.6771** | **13.0208** | **0.0000** | **58,918.4232** | **58,918.4232** | **2.3371** | **2.4341** | **59,702.2211** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **47.36** | **20.09** | **68.71** | **77.75** | **8.03** | **98.01** | **66.38** | **8.03** | **98.03** | **86.65** | **100.00** | **5.82** | **21.32** | **96.11** | **5.79** | **22.62** |

## 3.0 Construction Detail

**Construction Phase**

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/20/2023 | 4/13/2023 | 5 | 60 | |
| 2 | Grading | Grading | 7/7/2023 | 8/3/2023 | 5 | 20 | |
| 3 | Paving | Paving | 8/4/2023 | 9/28/2023 | 5 | 40 | |
| 4 | Building Construction | Building Construction | 9/29/2023 | 7/2/2026 | 5 | 720 | |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | Architectural Coating | Architectural Coating | 10/13/2023 | 7/16/2026 | 5 | 720 | |

**Acres of Grading (Site Preparation Phase): 90**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 21.4**

**Residential Indoor: 2,967,030; Residential Outdoor: 989,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 55,825 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 825.00 | 294.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 165.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.3081 | 3,687.3081 | 1.1926 | | 3,717.1219 |
| **Total** | **2.6595** | **27.5242** | **18.2443** | **0.0381** | **19.6570** | **1.2660** | **20.9230** | **10.1025** | **1.1647** | **11.2672** | | **3,687.3081** | **3,687.3081** | **1.1926** | | **3,717.1219** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0653 | 0.0353 | 0.5175 | 1.3600e-003 | 0.1479 | 7.6000e-004 | 0.1486 | 0.0392 | 7.0000e-004 | 0.0399 | | 139.6728 | 139.6728 | 3.8500e-003 | 3.5600e-003 | 140.8306 |
| **Total** | **0.0653** | **0.0353** | **0.5175** | **1.3600e-003** | **0.1479** | **7.6000e-004** | **0.1486** | **0.0392** | **7.0000e-004** | **0.0399** | | **139.6728** | **139.6728** | **3.8500e-003** | **3.5600e-003** | **140.8306** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.9312 | 19.0656 | 22.9600 | 0.0381 | | 0.9462 | 0.9462 | | 0.9462 | 0.9462 | 0.0000 | 3,687.3081 | 3,687.3081 | 1.1926 | | 3,717.1219 |
| **Total** | **0.9312** | **19.0656** | **22.9600** | **0.0381** | **19.6570** | **0.9462** | **20.6032** | **10.1025** | **0.9462** | **11.0486** | **0.0000** | **3,687.3081** | **3,687.3081** | **1.1926** | | **3,717.1219** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0653 | 0.0353 | 0.5175 | 1.3600e-003 | 0.1479 | 7.6000e-004 | 0.1486 | 0.0392 | 7.0000e-004 | 0.0399 | | 139.6728 | 139.6728 | 3.8500e-003 | 3.5600e-003 | 140.8306 |
| **Total** | **0.0653** | **0.0353** | **0.5175** | **1.3600e-003** | **0.1479** | **7.6000e-004** | **0.1486** | **0.0392** | **7.0000e-004** | **0.0399** | | **139.6728** | **139.6728** | **3.8500e-003** | **3.5600e-003** | **140.8306** |

## 3.3 Grading - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| **Total** | **3.3217** | **34.5156** | **28.0512** | **0.0621** | **9.2036** | **1.4245** | **10.6281** | **3.6538** | **1.3105** | **4.9643** | | **6,011.4777** | **6,011.4777** | **1.9442** | | **6,060.0836** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0726 | 0.0392 | 0.5750 | 1.5200e-003 | 0.1643 | 8.5000e-004 | 0.1651 | 0.0436 | 7.8000e-004 | 0.0444 | | 155.1920 | 155.1920 | 4.2800e-003 | 3.9600e-003 | 156.4785 |
| **Total** | **0.0726** | **0.0392** | **0.5750** | **1.5200e-003** | **0.1643** | **8.5000e-004** | **0.1651** | **0.0436** | **7.8000e-004** | **0.0444** | | **155.1920** | **155.1920** | **4.2800e-003** | **3.9600e-003** | **156.4785** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5231 | 29.9782 | 36.7226 | 0.0621 | | 1.2994 | 1.2994 | | 1.2994 | 1.2994 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| **Total** | **1.5231** | **29.9782** | **36.7226** | **0.0621** | **9.2036** | **1.2994** | **10.5030** | **3.6538** | **1.2994** | **4.9532** | **0.0000** | **6,011.4777** | **6,011.4777** | **1.9442** | | **6,060.0836** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0726 | 0.0392 | 0.5750 | 1.5200e-003 | 0.1643 | 8.5000e-004 | 0.1651 | 0.0436 | 7.8000e-004 | 0.0444 | | 155.1920 | 155.1920 | 4.2800e-003 | 3.9600e-003 | 156.4785 |
| **Total** | **0.0726** | **0.0392** | **0.5750** | **1.5200e-003** | **0.1643** | **8.5000e-004** | **0.1651** | **0.0436** | **7.8000e-004** | **0.0444** | | **155.1920** | **155.1920** | **4.2800e-003** | **3.9600e-003** | **156.4785** |

## 3.4 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 1.4017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **2.4344** | **10.1917** | **14.5842** | **0.0228** | | **0.5102** | **0.5102** | | **0.4694** | **0.4694** | | **2,207.5841** | **2,207.5841** | **0.7140** | | **2,225.4336** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0544 | 0.0294 | 0.4313 | 1.1400e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.8000e-004 | 0.0333 | | 116.3940 | 116.3940 | 3.2100e-003 | 2.9700e-003 | 117.3589 |
| **Total** | **0.0544** | **0.0294** | **0.4313** | **1.1400e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.8000e-004** | **0.0333** | | **116.3940** | **116.3940** | **3.2100e-003** | **2.9700e-003** | **117.3589** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 1.4017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.9626** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.5841** | **2,207.5841** | **0.7140** | | **2,225.4336** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0544 | 0.0294 | 0.4313 | 1.1400e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.8000e-004 | 0.0333 | | 116.3940 | 116.3940 | 3.2100e-003 | 2.9700e-003 | 117.3589 |
| **Total** | **0.0544** | **0.0294** | **0.4313** | **1.1400e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.8000e-004** | **0.0333** | | **116.3940** | **116.3940** | **3.2100e-003** | **2.9700e-003** | **117.3589** |

## 3.5 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3357 | 12.4259 | 3.9233 | 0.0592 | 1.9933 | 0.0839 | 2.0772 | 0.5740 | 0.0803 | 0.6542 | | 6,259.8687 | 6,259.8687 | 0.0271 | 0.9361 | 6,539.4996 |
| Worker | 2.9943 | 1.6155 | 23.7199 | 0.0626 | 6.7772 | 0.0350 | 6.8121 | 1.7976 | 0.0322 | 1.8298 | | 6,401.6699 | 6,401.6699 | 0.1764 | 0.1633 | 6,454.7376 |
| **Total** | **3.3300** | **14.0414** | **27.6432** | **0.1218** | **8.7704** | **0.1189** | **8.8893** | **2.3716** | **0.1124** | **2.4840** | | **12,661.5387** | **12,661.5387** | **0.2035** | **1.0994** | **12,994.2372** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0269** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3357 | 12.4259 | 3.9233 | 0.0592 | 1.9933 | 0.0839 | 2.0772 | 0.5740 | 0.0803 | 0.6542 | | 6,259.8687 | 6,259.8687 | 0.0271 | 0.9361 | 6,539.4996 |
| Worker | 2.9943 | 1.6155 | 23.7199 | 0.0626 | 6.7772 | 0.0350 | 6.8121 | 1.7976 | 0.0322 | 1.8298 | | 6,401.6699 | 6,401.6699 | 0.1764 | 0.1633 | 6,454.7376 |
| **Total** | **3.3300** | **14.0414** | **27.6432** | **0.1218** | **8.7704** | **0.1189** | **8.8893** | **2.3716** | **0.1124** | **2.4840** | | **12,661.5387** | **12,661.5387** | **0.2035** | **1.0994** | **12,994.2372** |

## 3.5 Building Construction - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3267 | 12.4355 | 3.8263 | 0.0583 | 1.9933 | 0.0846 | 2.0779 | 0.5740 | 0.0809 | 0.6549 | | 6,159.8204 | 6,159.8204 | 0.0259 | 0.9207 | 6,434.8351 |
| Worker | 2.7566 | 1.4234 | 21.8763 | 0.0605 | 6.7772 | 0.0332 | 6.8103 | 1.7976 | 0.0305 | 1.8282 | | 6,239.6300 | 6,239.6300 | 0.1581 | 0.1508 | 6,288.5225 |
| **Total** | **3.0833** | **13.8589** | **25.7025** | **0.1188** | **8.7704** | **0.1178** | **8.8882** | **2.3716** | **0.1115** | **2.4831** | | **12,399.4504** | **12,399.4504** | **0.1839** | **1.0715** | **12,723.3576** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3267 | 12.4355 | 3.8263 | 0.0583 | 1.9933 | 0.0846 | 2.0779 | 0.5740 | 0.0809 | 0.6549 | | 6,159.8204 | 6,159.8204 | 0.0259 | 0.9207 | 6,434.8351 |
| Worker | 2.7566 | 1.4234 | 21.8763 | 0.0605 | 6.7772 | 0.0332 | 6.8103 | 1.7976 | 0.0305 | 1.8282 | | 6,239.6300 | 6,239.6300 | 0.1581 | 0.1508 | 6,288.5225 |
| **Total** | **3.0833** | **13.8589** | **25.7025** | **0.1188** | **8.7704** | **0.1178** | **8.8882** | **2.3716** | **0.1115** | **2.4831** | | **12,399.4504** | **12,399.4504** | **0.1839** | **1.0715** | **12,723.3576** |

## 3.5 Building Construction - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3190 | 12.3937 | 3.7451 | 0.0572 | 1.9933 | 0.0846 | 2.0779 | 0.5740 | 0.0809 | 0.6549 | | 6,047.6556 | 6,047.6556 | 0.0248 | 0.9032 | 6,317.4267 |
| Worker | 2.5516 | 1.2647 | 20.2580 | 0.0584 | 6.7772 | 0.0316 | 6.8088 | 1.7976 | 0.0291 | 1.8267 | | 6,086.9947 | 6,086.9947 | 0.1419 | 0.1402 | 6,132.3105 |
| **Total** | **2.8706** | **13.6584** | **24.0031** | **0.1157** | **8.7705** | **0.1162** | **8.8866** | **2.3716** | **0.1100** | **2.4816** | | **12,134.6502** | **12,134.6502** | **0.1668** | **1.0434** | **12,449.7372** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3190 | 12.3937 | 3.7451 | 0.0572 | 1.9933 | 0.0846 | 2.0779 | 0.5740 | 0.0809 | 0.6549 | | 6,047.6556 | 6,047.6556 | 0.0248 | 0.9032 | 6,317.4267 |
| Worker | 2.5516 | 1.2647 | 20.2580 | 0.0584 | 6.7772 | 0.0316 | 6.8088 | 1.7976 | 0.0291 | 1.8267 | | 6,086.9947 | 6,086.9947 | 0.1419 | 0.1402 | 6,132.3105 |
| **Total** | **2.8706** | **13.6584** | **24.0031** | **0.1157** | **8.7705** | **0.1162** | **8.8866** | **2.3716** | **0.1100** | **2.4816** | | **12,134.6502** | **12,134.6502** | **0.1668** | **1.0434** | **12,449.7372** |

## 3.5 Building Construction - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3123 | 12.3267 | 3.6791 | 0.0562 | 1.9933 | 0.0842 | 2.0775 | 0.5740 | 0.0805 | 0.6545 | | 5,933.9645 | 5,933.9645 | 0.0240 | 0.8854 | 6,198.4090 |
| Worker | 2.3751 | 1.1357 | 19.0182 | 0.0566 | 6.7772 | 0.0302 | 6.8074 | 1.7976 | 0.0278 | 1.8254 | | 5,947.7849 | 5,947.7849 | 0.1285 | 0.1315 | 5,990.1727 |
| **Total** | **2.6873** | **13.4624** | **22.6973** | **0.1128** | **8.7705** | **0.1144** | **8.8848** | **2.3716** | **0.1083** | **2.4799** | | **11,881.7494** | **11,881.7494** | **0.1524** | **1.0169** | **12,188.5817** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3123 | 12.3267 | 3.6791 | 0.0562 | 1.9933 | 0.0842 | 2.0775 | 0.5740 | 0.0805 | 0.6545 | | 5,933.9645 | 5,933.9645 | 0.0240 | 0.8854 | 6,198.4090 |
| Worker | 2.3751 | 1.1357 | 19.0182 | 0.0566 | 6.7772 | 0.0302 | 6.8074 | 1.7976 | 0.0278 | 1.8254 | | 5,947.7849 | 5,947.7849 | 0.1285 | 0.1315 | 5,990.1727 |
| **Total** | **2.6873** | **13.4624** | **22.6973** | **0.1128** | **8.7705** | **0.1144** | **8.8848** | **2.3716** | **0.1083** | **2.4799** | | **11,881.7494** | **11,881.7494** | **0.1524** | **1.0169** | **12,188.5817** |

## 3.6 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **38.9312** | **1.3030** | **1.8111** | **2.9700e-003** | | **0.0708** | **0.0708** | | **0.0708** | **0.0708** | | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5989 | 0.3231 | 4.7440 | 0.0125 | 1.3554 | 6.9900e-003 | 1.3624 | 0.3595 | 6.4300e-003 | 0.3660 | | 1,280.3340 | 1,280.3340 | 0.0353 | 0.0327 | 1,290.9475 |
| **Total** | **0.5989** | **0.3231** | **4.7440** | **0.0125** | **1.3554** | **6.9900e-003** | **1.3624** | **0.3595** | **6.4300e-003** | **0.3660** | | **1,280.3340** | **1,280.3340** | **0.0353** | **0.0327** | **1,290.9475** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5989 | 0.3231 | 4.7440 | 0.0125 | 1.3554 | 6.9900e-003 | 1.3624 | 0.3595 | 6.4300e-003 | 0.3660 | | 1,280.3340 | 1,280.3340 | 0.0353 | 0.0327 | 1,290.9475 |
| **Total** | **0.5989** | **0.3231** | **4.7440** | **0.0125** | **1.3554** | **6.9900e-003** | **1.3624** | **0.3595** | **6.4300e-003** | **0.3660** | | **1,280.3340** | **1,280.3340** | **0.0353** | **0.0327** | **1,290.9475** |

## 3.6 Architectural Coating - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **38.9203** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5513 | 0.2847 | 4.3753 | 0.0121 | 1.3554 | 6.6300e-003 | 1.3621 | 0.3595 | 6.1000e-003 | 0.3656 | | 1,247.9260 | 1,247.9260 | 0.0316 | 0.0302 | 1,257.7045 |
| **Total** | **0.5513** | **0.2847** | **4.3753** | **0.0121** | **1.3554** | **6.6300e-003** | **1.3621** | **0.3595** | **6.1000e-003** | **0.3656** | | **1,247.9260** | **1,247.9260** | **0.0316** | **0.0302** | **1,257.7045** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5513 | 0.2847 | 4.3753 | 0.0121 | 1.3554 | 6.6300e-003 | 1.3621 | 0.3595 | 6.1000e-003 | 0.3656 | | 1,247.9260 | 1,247.9260 | 0.0316 | 0.0302 | 1,257.7045 |
| **Total** | **0.5513** | **0.2847** | **4.3753** | **0.0121** | **1.3554** | **6.6300e-003** | **1.3621** | **0.3595** | **6.1000e-003** | **0.3656** | | **1,247.9260** | **1,247.9260** | **0.0316** | **0.0302** | **1,257.7045** |

## 3.6 Architectural Coating - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.9104** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5103 | 0.2529 | 4.0516 | 0.0117 | 1.3554 | 6.3100e-003 | 1.3618 | 0.3595 | 5.8100e-003 | 0.3653 | | 1,217.3989 | 1,217.3989 | 0.0284 | 0.0280 | 1,226.4621 |
| **Total** | **0.5103** | **0.2529** | **4.0516** | **0.0117** | **1.3554** | **6.3100e-003** | **1.3618** | **0.3595** | **5.8100e-003** | **0.3653** | | **1,217.3989** | **1,217.3989** | **0.0284** | **0.0280** | **1,226.4621** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5103 | 0.2529 | 4.0516 | 0.0117 | 1.3554 | 6.3100e-003 | 1.3618 | 0.3595 | 5.8100e-003 | 0.3653 | | 1,217.3989 | 1,217.3989 | 0.0284 | 0.0280 | 1,226.4621 |
| **Total** | **0.5103** | **0.2529** | **4.0516** | **0.0117** | **1.3554** | **6.3100e-003** | **1.3618** | **0.3595** | **5.8100e-003** | **0.3653** | | **1,217.3989** | **1,217.3989** | **0.0284** | **0.0280** | **1,226.4621** |

## 3.6 Architectural Coating - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.9104** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4750 | 0.2271 | 3.8036 | 0.0113 | 1.3554 | 6.0400e-003 | 1.3615 | 0.3595 | 5.5500e-003 | 0.3651 | | 1,189.5570 | 1,189.5570 | 0.0257 | 0.0263 | 1,198.0345 |
| **Total** | **0.4750** | **0.2271** | **3.8036** | **0.0113** | **1.3554** | **6.0400e-003** | **1.3615** | **0.3595** | **5.5500e-003** | **0.3651** | | **1,189.5570** | **1,189.5570** | **0.0257** | **0.0263** | **1,198.0345** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

### 3.6 Architectural Coating - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4750 | 0.2271 | 3.8036 | 0.0113 | 1.3554 | 6.0400e-003 | 1.3615 | 0.3595 | 5.5500e-003 | 0.3651 | | 1,189.5570 | 1,189.5570 | 0.0257 | 0.0263 | 1,198.0345 |
| **Total** | **0.4750** | **0.2271** | **3.8036** | **0.0113** | **1.3554** | **6.0400e-003** | **1.3615** | **0.3595** | **5.5500e-003** | **0.3651** | | **1,189.5570** | **1,189.5570** | **0.0257** | **0.0263** | **1,198.0345** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 20.5589 | 27.2123 | 166.0413 | 0.4059 | 42.4961 | 0.3310 | 42.8270 | 11.3437 | 0.3108 | 11.6544 | | 43,107.7623 | 43,107.7623 | 1.9204 | 2.1465 | 43,795.4327 |
| Unmitigated | 21.2064 | 28.9884 | 177.6272 | 0.4402 | 46.2070 | 0.3576 | 46.5645 | 12.3342 | 0.3358 | 12.6700 | | 46,750.4980 | 46,750.4980 | 2.0321 | 2.2962 | 47,485.5588 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 7,741.14 | 7,741.14 | 7741.14 | 21,834,370 | 20,080,856 |
| Total | 7,741.14 | 7,741.14 | 7,741.14 | 21,834,370 | 20,080,856 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 10.51 | 7.11 | 7.30 | 45.60 | 19.00 | 35.40 | 86 | 11 | 3 |

## 4.4 Fleet Mix

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Other Asphalt Surfaces | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Single Family Housing | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| NaturalGas Unmitigated | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Summer

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 52762.4 | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| **Total** | | **0.5690** | **4.8624** | **2.0691** | **0.0310** | | **0.3931** | **0.3931** | | **0.3931** | **0.3931** | | **6,207.3397** | **6,207.3397** | **0.1190** | **0.1138** | **6,244.2268** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 52.7624 | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| **Total** | | **0.5690** | **4.8624** | **2.0691** | **0.0310** | | **0.3931** | **0.3931** | | **0.3931** | **0.3931** | | **6,207.3397** | **6,207.3397** | **0.1190** | **0.1138** | **6,244.2268** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 42.2277 | 8.1994 | 70.2556 | 0.0510 | | 0.9727 | 0.9727 | | 0.9727 | 0.9727 | 0.0000 | 9,601.6338 | 9,601.6338 | 0.2975 | 0.1738 | 9,660.8683 |
| Unmitigated | 98.5946 | 16.5501 | 582.1514 | 1.7211 | | 84.4794 | 84.4794 | | 84.4794 | 84.4794 | 12,325.5821 | 9,601.6338 | 21,927.2159 | 57.9171 | 0.1738 | 23,426.9401 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.6418 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 31.7021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 57.2361 | 15.7772 | 515.0560 | 1.7175 | | 84.1071 | 84.1071 | | 84.1071 | 84.1071 | 12,325.5821 | 9,480.7059 | 21,806.2880 | 57.8013 | 0.1738 | 23,303.1168 |
| Landscaping | 2.0147 | 0.7729 | 67.0954 | 3.5500e-003 | | 0.3723 | 0.3723 | | 0.3723 | 0.3723 | | 120.9279 | 120.9279 | 0.1158 | | 123.8233 |
| **Total** | **98.5947** | **16.5501** | **582.1514** | **1.7211** | | **84.4794** | **84.4794** | | **84.4794** | **84.4794** | **12,325.5821** | **9,601.6338** | **21,927.2159** | **57.9171** | **0.1738** | **23,426.9401** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.6418 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 31.7021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.8691 | 7.4266 | 3.1602 | 0.0474 | | 0.6004 | 0.6004 | | 0.6004 | 0.6004 | 0.0000 | 9,480.7059 | 9,480.7059 | 0.1817 | 0.1738 | 9,537.0450 |
| Landscaping | 2.0147 | 0.7729 | 67.0954 | 3.5500e-003 | | 0.3723 | 0.3723 | | 0.3723 | 0.3723 | | 120.9279 | 120.9279 | 0.1158 | | 123.8233 |
| **Total** | **42.2277** | **8.1994** | **70.2556** | **0.0510** | | **0.9727** | **0.9727** | | **0.9727** | **0.9727** | **0.0000** | **9,601.6338** | **9,601.6338** | **0.2975** | **0.1738** | **9,660.8683** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# 10.0 Stationary Equipment

## Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|
| Emergency Generator | 1 | 0.01 | 3 | 201 | 0.73 | Diesel |

## Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

## User Defined Equipment

| Equipment Type | Number |
|---|---|

# 10.1 Stationary Sources

## Unmitigated/Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Type | lb/day | | | | | | | | | | lb/day | | | | | |
| Emergency Generator - Diesel (175 - 300 HP) | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **3.3000e-003** | **9.2200e-003** | **8.4100e-003** | **2.0000e-005** | | **4.9000e-004** | **4.9000e-004** | | **4.9000e-004** | **4.9000e-004** | | **1.6874** | **1.6874** | **2.4000e-004** | | **1.6933** |

# 11.0 Vegetation

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# Yosemite Square Subdivision Project

**San Joaquin Valley Unified APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Other Asphalt Surfaces | 16.50 | Acre | 16.50 | 718,740.00 | 0 |
| Other Asphalt Surfaces | 4.90 | Acre | 4.90 | 211,680.00 | 0 |
| City Park | 7.70 | Acre | 7.70 | 335,412.00 | 0 |
| Single Family Housing | 814.00 | Dwelling Unit | 113.40 | 1,465,200.00 | 2582 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.7 | **Precipitation Freq (Days)** | 45 |
| **Climate Zone** | 2 | | | **Operational Year** | 2028 |
| **Utility Company** | Pacific Gas and Electric Company | | | | |
| **CO2 Intensity (lb/MWhr)** | 203.98 | **CH4 Intensity (lb/MWhr)** | 0.033 | **N2O Intensity (lb/MWhr)** | 0.004 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage adjusted to be consistent with site plan prepared for the proposed project. 4.86 acres of asphalt surfaces included to represent off-site roadway widening.

Construction Phase - Construction phase timing based on applicant provided AQ Questionnaire. Architectural coating assumed to start two weeks after building construction, and last for the same duration.

Grading -

Vehicle Trips - Trip generation rates and VMT adjusted based on transportation report prepared by Fehr & Peers for the proposed project.

Woodstoves -

Construction Off-road Equipment Mitigation - Based on applicant provided AQ Questionnaire.

Mobile Land Use Mitigation - Based on applicant provided AQ Questionnaire.

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Area Mitigation - Based on applicant provided AQ Questionnaire.

Water Mitigation - Compliant with MWELO.

Stationary Sources - Emergency Generators and Fire Pumps - Representative of generator for proposed pump station.

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 9.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | |
|---|---|---|---|
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 120.00 | 60.00 |
| tblConstructionPhase | NumDays | 310.00 | 20.00 |
| tblConstructionPhase | NumDays | 220.00 | 40.00 |
| tblConstructionPhase | NumDays | 3,100.00 | 720.00 |
| tblConstructionPhase | NumDays | 220.00 | 720.00 |
| tblLandUse | LandUseSquareFeet | 213,444.00 | 211,680.00 |
| tblLandUse | LotAcreage | 264.29 | 113.40 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 201.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.01 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 3.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 1.00 |
| tblVehicleTrips | HO_TL | 7.50 | 7.30 |
| tblVehicleTrips | HS_TL | 7.30 | 7.11 |
| tblVehicleTrips | HW_TL | 10.80 | 10.51 |
| tblVehicleTrips | ST_TR | 1.96 | 0.00 |
| tblVehicleTrips | ST_TR | 9.54 | 9.51 |
| tblVehicleTrips | SU_TR | 2.19 | 0.00 |
| tblVehicleTrips | SU_TR | 8.55 | 9.51 |
| tblVehicleTrips | WD_TR | 0.78 | 0.00 |
| tblVehicleTrips | WD_TR | 9.44 | 9.51 |

## 2.0 Emissions Summary

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 44.0239 | 34.5618 | 46.4740 | 0.1561 | 19.8049 | 1.4253 | 21.0717 | 10.1417 | 1.3113 | 11.3071 | 0.0000 | 15,944.2515 | 15,944.2515 | 1.9490 | 1.1577 | 16,311.4051 |
| 2024 | 43.6579 | 29.9986 | 44.5040 | 0.1529 | 10.1259 | 0.7989 | 10.9248 | 2.7311 | 0.7556 | 3.4868 | 0.0000 | 15,673.8122 | 15,673.8122 | 0.8571 | 1.1254 | 16,030.6057 |
| 2025 | 43.3229 | 28.6798 | 42.7533 | 0.1497 | 10.1259 | 0.7018 | 10.8277 | 2.7311 | 0.6638 | 3.3949 | 0.0000 | 15,401.2399 | 15,401.2399 | 0.8315 | 1.0934 | 15,747.8692 |
| 2026 | 43.1339 | 28.4240 | 41.4483 | 0.1467 | 10.1259 | 0.6997 | 10.8256 | 2.7311 | 0.6618 | 3.3930 | 0.0000 | 15,140.1835 | 15,140.1835 | 0.8131 | 1.0638 | 15,477.5298 |
| **Maximum** | **44.0239** | **34.5618** | **46.4740** | **0.1561** | **19.8049** | **1.4253** | **21.0717** | **10.1417** | **1.3113** | **11.3071** | **0.0000** | **15,944.2515** | **15,944.2515** | **1.9490** | **1.1577** | **16,311.4051** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.1 Overall Construction (Maximum Daily Emission)

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 42.9929 | 31.1838 | 48.1251 | 0.1561 | 19.8049 | 1.3003 | 20.7518 | 10.1417 | 1.3002 | 11.0885 | 0.0000 | 15,944.2515 | 15,944.2515 | 1.9490 | 1.1577 | 16,311.4051 |
| 2024 | 42.7389 | 30.9191 | 46.2332 | 0.1529 | 10.1259 | 1.1233 | 11.2492 | 2.7311 | 1.1165 | 3.8476 | 0.0000 | 15,673.8122 | 15,673.8122 | 0.8571 | 1.1254 | 16,030.6057 |
| 2025 | 42.5180 | 30.6476 | 44.5657 | 0.1497 | 10.1259 | 1.1214 | 11.2472 | 2.7311 | 1.1147 | 3.8458 | 0.0000 | 15,401.2399 | 15,401.2399 | 0.8315 | 1.0934 | 15,747.8692 |
| 2026 | 42.3290 | 30.3918 | 43.2607 | 0.1467 | 10.1259 | 1.1193 | 11.2452 | 2.7311 | 1.1127 | 3.8438 | 0.0000 | 15,140.1835 | 15,140.1835 | 0.8131 | 1.0638 | 15,477.5298 |
| **Maximum** | **42.9929** | **31.1838** | **48.1251** | **0.1561** | **19.8049** | **1.3003** | **20.7518** | **10.1417** | **1.3002** | **11.0885** | **0.0000** | **15,944.2515** | **15,944.2515** | **1.9490** | **1.1577** | **16,311.4051** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **2.04** | **-1.21** | **-4.00** | **0.00** | **0.00** | **-28.64** | **-1.57** | **0.00** | **-36.89** | **-4.84** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 2.2 Overall Operational

**Unmitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 98.5946 | 16.5501 | 582.1514 | 1.7211 | | 84.4794 | 84.4794 | | 84.4794 | 84.4794 | 12,325.5821 | 9,601.6338 | 21,927.2159 | 57.9171 | 0.1738 | 23,426.9401 |
| Energy | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| Mobile | 16.6350 | 32.3033 | 173.2443 | 0.4055 | 46.2070 | 0.3579 | 46.5648 | 12.3342 | 0.3361 | 12.6703 | | 43,048.7087 | 43,048.7087 | 2.2536 | 2.4263 | 43,828.0946 |
| Stationary | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **115.8020** | **53.7250** | **757.4732** | **2.1576** | **46.2070** | **85.2309** | **131.4378** | **12.3342** | **85.2091** | **97.5433** | **12,325.5821** | **58,859.3696** | **71,184.9517** | **60.2899** | **2.7139** | **73,500.9548** |

## 2.2 Overall Operational

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 42.2277 | 8.1994 | 70.2556 | 0.0510 | | 0.9727 | 0.9727 | | 0.9727 | 0.9727 | 0.0000 | 9,601.6338 | 9,601.6338 | 0.2975 | 0.1738 | 9,660.8683 |
| Energy | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| Mobile | 15.9679 | 30.3246 | 163.0780 | 0.3740 | 42.4961 | 0.3313 | 42.8274 | 11.3437 | 0.3111 | 11.6547 | | 39,706.5472 | 39,706.5472 | 2.1422 | 2.2699 | 40,436.5380 |
| Stationary | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **58.7678** | **43.3957** | **235.4111** | **0.4560** | **42.4961** | **1.6976** | **44.1937** | **11.3437** | **1.6774** | **13.0211** | **0.0000** | **55,517.2081** | **55,517.2081** | **2.5590** | **2.5575** | **56,343.3264** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **49.25** | **19.23** | **68.92** | **78.87** | **8.03** | **98.01** | **66.38** | **8.03** | **98.03** | **86.65** | **100.00** | **5.68** | **22.01** | **95.76** | **5.76** | **23.34** |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|---|---|---|---|---|---|---|---|
| 1 | Site Preparation | Site Preparation | 1/20/2023 | 4/13/2023 | 5 | 60 | |
| 2 | Grading | Grading | 7/7/2023 | 8/3/2023 | 5 | 20 | |
| 3 | Paving | Paving | 8/4/2023 | 9/28/2023 | 5 | 40 | |
| 4 | Building Construction | Building Construction | 9/29/2023 | 7/2/2026 | 5 | 720 | |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5 | Architectural Coating | Architectural Coating | 10/13/2023 | 7/16/2026 | 5 | 720 | |

**Acres of Grading (Site Preparation Phase): 90**

**Acres of Grading (Grading Phase): 60**

**Acres of Paving: 21.4**

**Residential Indoor: 2,967,030; Residential Outdoor: 989,010; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 55,825 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 825.00 | 294.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 165.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

## 3.2 Site Preparation - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.3081 | 3,687.3081 | 1.1926 | | 3,717.1219 |
| **Total** | **2.6595** | **27.5242** | **18.2443** | **0.0381** | **19.6570** | **1.2660** | **20.9230** | **10.1025** | **1.1647** | **11.2672** | | **3,687.3081** | **3,687.3081** | **1.1926** | | **3,717.1219** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0583 | 0.0416 | 0.4430 | 1.2100e-003 | 0.1479 | 7.6000e-004 | 0.1486 | 0.0392 | 7.0000e-004 | 0.0399 | | 124.2815 | 124.2815 | 4.2800e-003 | 3.9800e-003 | 125.5744 |
| **Total** | **0.0583** | **0.0416** | **0.4430** | **1.2100e-003** | **0.1479** | **7.6000e-004** | **0.1486** | **0.0392** | **7.0000e-004** | **0.0399** | | **124.2815** | **124.2815** | **4.2800e-003** | **3.9800e-003** | **125.5744** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.9312 | 19.0656 | 22.9600 | 0.0381 | | 0.9462 | 0.9462 | | 0.9462 | 0.9462 | 0.0000 | 3,687.3081 | 3,687.3081 | 1.1926 | | 3,717.1219 |
| **Total** | **0.9312** | **19.0656** | **22.9600** | **0.0381** | **19.6570** | **0.9462** | **20.6032** | **10.1025** | **0.9462** | **11.0486** | **0.0000** | **3,687.3081** | **3,687.3081** | **1.1926** | | **3,717.1219** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.2 Site Preparation - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0583 | 0.0416 | 0.4430 | 1.2100e-003 | 0.1479 | 7.6000e-004 | 0.1486 | 0.0392 | 7.0000e-004 | 0.0399 | | 124.2815 | 124.2815 | 4.2800e-003 | 3.9800e-003 | 125.5744 |
| **Total** | **0.0583** | **0.0416** | **0.4430** | **1.2100e-003** | **0.1479** | **7.6000e-004** | **0.1486** | **0.0392** | **7.0000e-004** | **0.0399** | | **124.2815** | **124.2815** | **4.2800e-003** | **3.9800e-003** | **125.5744** |

## 3.3 Grading - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| **Total** | **3.3217** | **34.5156** | **28.0512** | **0.0621** | **9.2036** | **1.4245** | **10.6281** | **3.6538** | **1.3105** | **4.9643** | | **6,011.4777** | **6,011.4777** | **1.9442** | | **6,060.0836** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0647 | 0.0462 | 0.4922 | 1.3500e-003 | 0.1643 | 8.5000e-004 | 0.1651 | 0.0436 | 7.8000e-004 | 0.0444 | | 138.0905 | 138.0905 | 4.7500e-003 | 4.4200e-003 | 139.5271 |
| **Total** | **0.0647** | **0.0462** | **0.4922** | **1.3500e-003** | **0.1643** | **8.5000e-004** | **0.1651** | **0.0436** | **7.8000e-004** | **0.0444** | | **138.0905** | **138.0905** | **4.7500e-003** | **4.4200e-003** | **139.5271** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5231 | 29.9782 | 36.7226 | 0.0621 | | 1.2994 | 1.2994 | | 1.2994 | 1.2994 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| **Total** | **1.5231** | **29.9782** | **36.7226** | **0.0621** | **9.2036** | **1.2994** | **10.5030** | **3.6538** | **1.2994** | **4.9532** | **0.0000** | **6,011.4777** | **6,011.4777** | **1.9442** | | **6,060.0836** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.3 Grading - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0647 | 0.0462 | 0.4922 | 1.3500e-003 | 0.1643 | 8.5000e-004 | 0.1651 | 0.0436 | 7.8000e-004 | 0.0444 | | 138.0905 | 138.0905 | 4.7500e-003 | 4.4200e-003 | 139.5271 |
| **Total** | **0.0647** | **0.0462** | **0.4922** | **1.3500e-003** | **0.1643** | **8.5000e-004** | **0.1651** | **0.0436** | **7.8000e-004** | **0.0444** | | **138.0905** | **138.0905** | **4.7500e-003** | **4.4200e-003** | **139.5271** |

## 3.4 Paving - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 1.4017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **2.4344** | **10.1917** | **14.5842** | **0.0228** | | **0.5102** | **0.5102** | | **0.4694** | **0.4694** | | **2,207.5841** | **2,207.5841** | **0.7140** | | **2,225.4336** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0486 | 0.0347 | 0.3692 | 1.0100e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.8000e-004 | 0.0333 | | 103.5679 | 103.5679 | 3.5700e-003 | 3.3200e-003 | 104.6453 |
| **Total** | **0.0486** | **0.0347** | **0.3692** | **1.0100e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.8000e-004** | **0.0333** | | **103.5679** | **103.5679** | **3.5700e-003** | **3.3200e-003** | **104.6453** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.5609 | 11.2952 | 17.2957 | 0.0228 | | 0.6093 | 0.6093 | | 0.6093 | 0.6093 | 0.0000 | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 1.4017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.9626** | **11.2952** | **17.2957** | **0.0228** | | **0.6093** | **0.6093** | | **0.6093** | **0.6093** | **0.0000** | **2,207.5841** | **2,207.5841** | **0.7140** | | **2,225.4336** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.4 Paving - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0486 | 0.0347 | 0.3692 | 1.0100e-003 | 0.1232 | 6.4000e-004 | 0.1239 | 0.0327 | 5.8000e-004 | 0.0333 | | 103.5679 | 103.5679 | 3.5700e-003 | 3.3200e-003 | 104.6453 |
| **Total** | **0.0486** | **0.0347** | **0.3692** | **1.0100e-003** | **0.1232** | **6.4000e-004** | **0.1239** | **0.0327** | **5.8000e-004** | **0.0333** | | **103.5679** | **103.5679** | **3.5700e-003** | **3.3200e-003** | **104.6453** |

## 3.5 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3153 | 13.3121 | 4.0551 | 0.0594 | 1.9933 | 0.0842 | 2.0774 | 0.5740 | 0.0805 | 0.6545 | | 6,272.1125 | 6,272.1125 | 0.0262 | 0.9388 | 6,552.5375 |
| Worker | 2.6706 | 1.9073 | 20.3032 | 0.0557 | 6.7772 | 0.0350 | 6.8121 | 1.7976 | 0.0322 | 1.8298 | | 5,696.2342 | 5,696.2342 | 0.1961 | 0.1824 | 5,755.4938 |
| **Total** | **2.9858** | **15.2193** | **24.3583** | **0.1150** | **8.7704** | **0.1191** | **8.8896** | **2.3716** | **0.1127** | **2.4843** | | **11,968.3467** | **11,968.3467** | **0.2223** | **1.1212** | **12,308.0313** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0269 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0269** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3153 | 13.3121 | 4.0551 | 0.0594 | 1.9933 | 0.0842 | 2.0774 | 0.5740 | 0.0805 | 0.6545 | | 6,272.1125 | 6,272.1125 | 0.0262 | 0.9388 | 6,552.5375 |
| Worker | 2.6706 | 1.9073 | 20.3032 | 0.0557 | 6.7772 | 0.0350 | 6.8121 | 1.7976 | 0.0322 | 1.8298 | | 5,696.2342 | 5,696.2342 | 0.1961 | 0.1824 | 5,755.4938 |
| **Total** | **2.9858** | **15.2193** | **24.3583** | **0.1150** | **8.7704** | **0.1191** | **8.8896** | **2.3716** | **0.1127** | **2.4843** | | **11,968.3467** | **11,968.3467** | **0.2223** | **1.1212** | **12,308.0313** |

## 3.5 Building Construction - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3065 | 13.3207 | 3.9577 | 0.0584 | 1.9933 | 0.0849 | 2.0781 | 0.5740 | 0.0812 | 0.6552 | | 6,171.9319 | 6,171.9319 | 0.0250 | 0.9233 | 6,447.7098 |
| Worker | 2.4663 | 1.6795 | 18.8078 | 0.0538 | 6.7772 | 0.0332 | 6.8103 | 1.7976 | 0.0305 | 1.8282 | | 5,553.9444 | 5,553.9444 | 0.1766 | 0.1684 | 5,608.5367 |
| **Total** | **2.7728** | **15.0002** | **22.7655** | **0.1123** | **8.7704** | **0.1180** | **8.8885** | **2.3716** | **0.1117** | **2.4833** | | **11,725.8763** | **11,725.8763** | **0.2016** | **1.0917** | **12,056.2465** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.3065 | 13.3207 | 3.9577 | 0.0584 | 1.9933 | 0.0849 | 2.0781 | 0.5740 | 0.0812 | 0.6552 | | 6,171.9319 | 6,171.9319 | 0.0250 | 0.9233 | 6,447.7098 |
| Worker | 2.4663 | 1.6795 | 18.8078 | 0.0538 | 6.7772 | 0.0332 | 6.8103 | 1.7976 | 0.0305 | 1.8282 | | 5,553.9444 | 5,553.9444 | 0.1766 | 0.1684 | 5,608.5367 |
| **Total** | **2.7728** | **15.0002** | **22.7655** | **0.1123** | **8.7704** | **0.1180** | **8.8885** | **2.3716** | **0.1117** | **2.4833** | | **11,725.8763** | **11,725.8763** | **0.2016** | **1.0917** | **12,056.2465** |

## 3.5 Building Construction - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2989 | 13.2747 | 3.8758 | 0.0574 | 1.9933 | 0.0848 | 2.0781 | 0.5740 | 0.0812 | 0.6551 | | 6,059.5929 | 6,059.5929 | 0.0239 | 0.9057 | 6,330.1006 |
| Worker | 2.2884 | 1.4916 | 17.4865 | 0.0520 | 6.7772 | 0.0316 | 6.8088 | 1.7976 | 0.0291 | 1.8267 | | 5,419.7705 | 5,419.7705 | 0.1594 | 0.1564 | 5,470.3656 |
| **Total** | **2.5874** | **14.7663** | **21.3622** | **0.1094** | **8.7705** | **0.1164** | **8.8869** | **2.3716** | **0.1102** | **2.4818** | | **11,479.3634** | **11,479.3634** | **0.1833** | **1.0622** | **11,800.4662** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2989 | 13.2747 | 3.8758 | 0.0574 | 1.9933 | 0.0848 | 2.0781 | 0.5740 | 0.0812 | 0.6551 | | 6,059.5929 | 6,059.5929 | 0.0239 | 0.9057 | 6,330.1006 |
| Worker | 2.2884 | 1.4916 | 17.4865 | 0.0520 | 6.7772 | 0.0316 | 6.8088 | 1.7976 | 0.0291 | 1.8267 | | 5,419.7705 | 5,419.7705 | 0.1594 | 0.1564 | 5,470.3656 |
| **Total** | **2.5874** | **14.7663** | **21.3622** | **0.1094** | **8.7705** | **0.1164** | **8.8869** | **2.3716** | **0.1102** | **2.4818** | | **11,479.3634** | **11,479.3634** | **0.1833** | **1.0622** | **11,800.4662** |

## 3.5 Building Construction - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2923 | 13.2021 | 3.8088 | 0.0563 | 1.9933 | 0.0844 | 2.0777 | 0.5740 | 0.0807 | 0.6547 | | 5,945.7101 | 5,945.7101 | 0.0231 | 0.8879 | 6,210.8679 |
| Worker | 2.1364 | 1.3389 | 16.4548 | 0.0504 | 6.7772 | 0.0302 | 6.8074 | 1.7976 | 0.0278 | 1.8254 | | 5,297.1259 | 5,297.1259 | 0.1448 | 0.1466 | 5,344.4433 |
| **Total** | **2.4288** | **14.5410** | **20.2636** | **0.1067** | **8.7705** | **0.1146** | **8.8850** | **2.3716** | **0.1085** | **2.4801** | | **11,242.8360** | **11,242.8360** | **0.1679** | **1.0345** | **11,555.3112** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.6739 | 14.2261 | 17.8738 | 0.0270 | | 0.9036 | 0.9036 | | 0.9036 | 0.9036 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **0.6739** | **14.2261** | **17.8738** | **0.0270** | | **0.9036** | **0.9036** | | **0.9036** | **0.9036** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.5 Building Construction - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.2923 | 13.2021 | 3.8088 | 0.0563 | 1.9933 | 0.0844 | 2.0777 | 0.5740 | 0.0807 | 0.6547 | | 5,945.7101 | 5,945.7101 | 0.0231 | 0.8879 | 6,210.8679 |
| Worker | 2.1364 | 1.3389 | 16.4548 | 0.0504 | 6.7772 | 0.0302 | 6.8074 | 1.7976 | 0.0278 | 1.8254 | | 5,297.1259 | 5,297.1259 | 0.1448 | 0.1466 | 5,344.4433 |
| **Total** | **2.4288** | **14.5410** | **20.2636** | **0.1067** | **8.7705** | **0.1146** | **8.8850** | **2.3716** | **0.1085** | **2.4801** | | **11,242.8360** | **11,242.8360** | **0.1679** | **1.0345** | **11,555.3112** |

## 3.6 Architectural Coating - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **38.9312** | **1.3030** | **1.8111** | **2.9700e-003** | | **0.0708** | **0.0708** | | **0.0708** | **0.0708** | | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5341 | 0.3815 | 4.0606 | 0.0111 | 1.3554 | 6.9900e-003 | 1.3624 | 0.3595 | 6.4300e-003 | 0.3660 | | 1,139.2468 | 1,139.2468 | 0.0392 | 0.0365 | 1,151.0988 |
| **Total** | **0.5341** | **0.3815** | **4.0606** | **0.0111** | **1.3554** | **6.9900e-003** | **1.3624** | **0.3595** | **6.4300e-003** | **0.3660** | | **1,139.2468** | **1,139.2468** | **0.0392** | **0.0365** | **1,151.0988** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0168** | | **281.8690** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.5341 | 0.3815 | 4.0606 | 0.0111 | 1.3554 | 6.9900e-003 | 1.3624 | 0.3595 | 6.4300e-003 | 0.3660 | | 1,139.2468 | 1,139.2468 | 0.0392 | 0.0365 | 1,151.0988 |
| **Total** | **0.5341** | **0.3815** | **4.0606** | **0.0111** | **1.3554** | **6.9900e-003** | **1.3624** | **0.3595** | **6.4300e-003** | **0.3660** | | **1,139.2468** | **1,139.2468** | **0.0392** | **0.0365** | **1,151.0988** |

## 3.6 Architectural Coating - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **38.9203** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4933 | 0.3359 | 3.7616 | 0.0108 | 1.3554 | 6.6300e-003 | 1.3621 | 0.3595 | 6.1000e-003 | 0.3656 | | 1,110.7889 | 1,110.7889 | 0.0353 | 0.0337 | 1,121.7073 |
| **Total** | **0.4933** | **0.3359** | **3.7616** | **0.0108** | **1.3554** | **6.6300e-003** | **1.3621** | **0.3595** | **6.1000e-003** | **0.3656** | | **1,110.7889** | **1,110.7889** | **0.0353** | **0.0337** | **1,121.7073** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4933 | 0.3359 | 3.7616 | 0.0108 | 1.3554 | 6.6300e-003 | 1.3621 | 0.3595 | 6.1000e-003 | 0.3656 | | 1,110.7889 | 1,110.7889 | 0.0353 | 0.0337 | 1,121.7073 |
| **Total** | **0.4933** | **0.3359** | **3.7616** | **0.0108** | **1.3554** | **6.6300e-003** | **1.3621** | **0.3595** | **6.1000e-003** | **0.3656** | | **1,110.7889** | **1,110.7889** | **0.0353** | **0.0337** | **1,121.7073** |

## 3.6 Architectural Coating - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.9104** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4577 | 0.2983 | 3.4973 | 0.0104 | 1.3554 | 6.3100e-003 | 1.3618 | 0.3595 | 5.8100e-003 | 0.3653 | | 1,083.9541 | 1,083.9541 | 0.0319 | 0.0313 | 1,094.0731 |
| **Total** | **0.4577** | **0.2983** | **3.4973** | **0.0104** | **1.3554** | **6.3100e-003** | **1.3618** | **0.3595** | **5.8100e-003** | **0.3653** | | **1,083.9541** | **1,083.9541** | **0.0319** | **0.0313** | **1,094.0731** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4577 | 0.2983 | 3.4973 | 0.0104 | 1.3554 | 6.3100e-003 | 1.3618 | 0.3595 | 5.8100e-003 | 0.3653 | | 1,083.9541 | 1,083.9541 | 0.0319 | 0.0313 | 1,094.0731 |
| **Total** | **0.4577** | **0.2983** | **3.4973** | **0.0104** | **1.3554** | **6.3100e-003** | **1.3618** | **0.3595** | **5.8100e-003** | **0.3653** | | **1,083.9541** | **1,083.9541** | **0.0319** | **0.0313** | **1,094.0731** |

## 3.6 Architectural Coating - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.9104** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 3.6 Architectural Coating - 2026

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4273 | 0.2678 | 3.2910 | 0.0101 | 1.3554 | 6.0400e-003 | 1.3615 | 0.3595 | 5.5500e-003 | 0.3651 | | 1,059.4252 | 1,059.4252 | 0.0290 | 0.0293 | 1,068.8887 |
| **Total** | **0.4273** | **0.2678** | **3.2910** | **0.0101** | **1.3554** | **6.0400e-003** | **1.3615** | **0.3595** | **5.5500e-003** | **0.3651** | | **1,059.4252** | **1,059.4252** | **0.0290** | **0.0293** | **1,068.8887** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 38.7396 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0594 | 1.3570 | 1.8324 | 2.9700e-003 | | 0.0951 | 0.0951 | | 0.0951 | 0.0951 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **38.7990** | **1.3570** | **1.8324** | **2.9700e-003** | | **0.0951** | **0.0951** | | **0.0951** | **0.0951** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

### 3.6 Architectural Coating - 2026

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.4273 | 0.2678 | 3.2910 | 0.0101 | 1.3554 | 6.0400e-003 | 1.3615 | 0.3595 | 5.5500e-003 | 0.3651 | | 1,059.4252 | 1,059.4252 | 0.0290 | 0.0293 | 1,068.8887 |
| **Total** | **0.4273** | **0.2678** | **3.2910** | **0.0101** | **1.3554** | **6.0400e-003** | **1.3615** | **0.3595** | **5.5500e-003** | **0.3651** | | **1,059.4252** | **1,059.4252** | **0.0290** | **0.0293** | **1,068.8887** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

Increase Transit Accessibility

Improve Pedestrian Network

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 15.9679 | 30.3246 | 163.0780 | 0.3740 | 42.4961 | 0.3313 | 42.8274 | 11.3437 | 0.3111 | 11.6547 | | 39,706.5472 | 39,706.5472 | 2.1422 | 2.2699 | 40,436.5380 |
| Unmitigated | 16.6350 | 32.3033 | 173.2443 | 0.4055 | 46.2070 | 0.3579 | 46.5648 | 12.3342 | 0.3361 | 12.6703 | | 43,048.7087 | 43,048.7087 | 2.2536 | 2.4263 | 43,828.0946 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 7,741.14 | 7,741.14 | 7741.14 | 21,834,370 | 20,080,856 |
| Total | 7,741.14 | 7,741.14 | 7,741.14 | 21,834,370 | 20,080,856 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 10.51 | 7.11 | 7.30 | 45.60 | 19.00 | 35.40 | 86 | 11 | 3 |

## 4.4 Fleet Mix

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Other Asphalt Surfaces | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |
| Single Family Housing | 0.532167 | 0.053173 | 0.172469 | 0.143104 | 0.024830 | 0.006800 | 0.013603 | 0.026184 | 0.000635 | 0.000308 | 0.022391 | 0.001352 | 0.002984 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| NaturalGas Unmitigated | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 52762.4 | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| **Total** | | **0.5690** | **4.8624** | **2.0691** | **0.0310** | | **0.3931** | **0.3931** | | **0.3931** | **0.3931** | | **6,207.3397** | **6,207.3397** | **0.1190** | **0.1138** | **6,244.2268** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 5.2 Energy by Land Use - NaturalGas

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 52.7624 | 0.5690 | 4.8624 | 2.0691 | 0.0310 | | 0.3931 | 0.3931 | | 0.3931 | 0.3931 | | 6,207.3397 | 6,207.3397 | 0.1190 | 0.1138 | 6,244.2268 |
| **Total** | | **0.5690** | **4.8624** | **2.0691** | **0.0310** | | **0.3931** | **0.3931** | | **0.3931** | **0.3931** | | **6,207.3397** | **6,207.3397** | **0.1190** | **0.1138** | **6,244.2268** |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use only Natural Gas Hearths

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 42.2277 | 8.1994 | 70.2556 | 0.0510 | | 0.9727 | 0.9727 | | 0.9727 | 0.9727 | 0.0000 | 9,601.6338 | 9,601.6338 | 0.2975 | 0.1738 | 9,660.8683 |
| Unmitigated | 98.5946 | 16.5501 | 582.1514 | 1.7211 | | 84.4794 | 84.4794 | | 84.4794 | 84.4794 | 12,325.5821 | 9,601.6338 | 21,927.2159 | 57.9171 | 0.1738 | 23,426.9401 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.6418 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 31.7021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 57.2361 | 15.7772 | 515.0560 | 1.7175 | | 84.1071 | 84.1071 | | 84.1071 | 84.1071 | 12,325.5821 | 9,480.7059 | 21,806.2880 | 57.8013 | 0.1738 | 23,303.1168 |
| Landscaping | 2.0147 | 0.7729 | 67.0954 | 3.5500e-003 | | 0.3723 | 0.3723 | | 0.3723 | 0.3723 | | 120.9279 | 120.9279 | 0.1158 | | 123.8233 |
| **Total** | **98.5947** | **16.5501** | **582.1514** | **1.7211** | | **84.4794** | **84.4794** | | **84.4794** | **84.4794** | **12,325.5821** | **9,601.6338** | **21,927.2159** | **57.9171** | **0.1738** | **23,426.9401** |

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

## 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 7.6418 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 31.7021 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.8691 | 7.4266 | 3.1602 | 0.0474 | | 0.6004 | 0.6004 | | 0.6004 | 0.6004 | 0.0000 | 9,480.7059 | 9,480.7059 | 0.1817 | 0.1738 | 9,537.0450 |
| Landscaping | 2.0147 | 0.7729 | 67.0954 | 3.5500e-003 | | 0.3723 | 0.3723 | | 0.3723 | 0.3723 | | 120.9279 | 120.9279 | 0.1158 | | 123.8233 |
| **Total** | **42.2277** | **8.1994** | **70.2556** | **0.0510** | | **0.9727** | **0.9727** | | **0.9727** | **0.9727** | **0.0000** | **9,601.6338** | **9,601.6338** | **0.2975** | **0.1738** | **9,660.8683** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Apply Water Conservation Strategy

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|

Yosemite Square Subdivision Project - San Joaquin Valley Unified APCD Air District, Winter

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

# 10.0 Stationary Equipment

## Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---|---|---|---|---|---|---|
| Emergency Generator | 1 | 0.01 | 3 | 201 | 0.73 | Diesel |

## Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|---|---|---|---|---|---|

## User Defined Equipment

| Equipment Type | Number |
|---|---|

# 10.1 Stationary Sources

## Unmitigated/Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment Type | lb/day | | | | | | | | | | lb/day | | | | | |
| Emergency Generator - Diesel (175 - 300 HP) | 3.3000e-003 | 9.2200e-003 | 8.4100e-003 | 2.0000e-005 | | 4.9000e-004 | 4.9000e-004 | | 4.9000e-004 | 4.9000e-004 | | 1.6874 | 1.6874 | 2.4000e-004 | | 1.6933 |
| **Total** | **3.3000e-003** | **9.2200e-003** | **8.4100e-003** | **2.0000e-005** | | **4.9000e-004** | **4.9000e-004** | | **4.9000e-004** | **4.9000e-004** | | **1.6874** | **1.6874** | **2.4000e-004** | | **1.6933** |

# 11.0 Vegetation

# Yosemite Square Subdivision Project

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**San Joaquin Valley Unified APCD Air District, Mitigation Report**

## Construction Mitigation Summary

| Phase | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | -0.12 | 0.00 | 0.00 | -0.61 | -0.62 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | 0.19 | -0.04 | -0.05 | 0.00 | -0.48 | -0.56 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading | 0.53 | 0.13 | -0.30 | 0.00 | 0.09 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.19 | -0.11 | -0.18 | 0.00 | -0.19 | -0.30 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | 0.64 | 0.31 | -0.25 | 0.00 | 0.25 | 0.19 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## OFFROAD Equipment Mitigation

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | Fuel Type | Tier | Number Mitigated | Total Number of Equipment | DPF | Oxidation Catalyst |
|---|---|---|---|---|---|---|
| Air Compressors | Diesel | Tier 3 | 1 | 1 | No Change | 0.00 |
| Cranes | Diesel | Tier 3 | 1 | 1 | No Change | 0.00 |
| Excavators | Diesel | Tier 3 | 2 | 2 | No Change | 0.00 |
| Forklifts | Diesel | Tier 3 | 3 | 3 | No Change | 0.00 |
| Generator Sets | Diesel | Tier 3 | 1 | 1 | No Change | 0.00 |
| Graders | Diesel | Tier 3 | 1 | 1 | No Change | 0.00 |
| Pavers | Diesel | Tier 3 | 2 | 2 | No Change | 0.00 |
| Paving Equipment | Diesel | Tier 3 | 2 | 2 | No Change | 0.00 |
| Rollers | Diesel | Tier 3 | 2 | 2 | No Change | 0.00 |
| Rubber Tired Dozers | Diesel | Tier 3 | 4 | 4 | No Change | 0.00 |
| Scrapers | Diesel | Tier 3 | 2 | 2 | No Change | 0.00 |
| Tractors/Loaders/Backhoes | Diesel | Tier 3 | 9 | 9 | No Change | 0.00 |
| Welders | Diesel | Tier 3 | 1 | 1 | No Change | 0.00 |

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Unmitigated tons/yr | | | | | | Unmitigated mt/yr | | | | | |
| Air Compressors | 6.33900E-002 | 4.26390E-001 | 6.51470E-001 | 1.07000E-003 | 2.03200E-002 | 2.03200E-002 | 0.00000E+000 | 9.19171E+001 | 9.19171E+001 | 5.11000E-003 | 0.00000E+000 | 9.20449E+001 |
| Cranes | 1.01820E-001 | 1.05515E+000 | 5.54200E-001 | 1.82000E-003 | 4.44100E-002 | 4.08600E-002 | 0.00000E+000 | 1.59690E+002 | 1.59690E+002 | 5.16500E-002 | 0.00000E+000 | 1.60981E+002 |
| Excavators | 3.77000E-003 | 3.09700E-002 | 6.51600E-002 | 1.00000E-004 | 1.52000E-003 | 1.39000E-003 | 0.00000E+000 | 9.07376E+000 | 9.07376E+000 | 2.93000E-003 | 0.00000E+000 | 9.14713E+000 |
| Forklifts | 9.82600E-002 | 9.23530E-001 | 1.22773E+000 | 1.65000E-003 | 5.16900E-002 | 4.75500E-002 | 0.00000E+000 | 1.45035E+002 | 1.45035E+002 | 4.69100E-002 | 0.00000E+000 | 1.46207E+002 |
| Generator Sets | 9.96500E-002 | 8.92460E-001 | 1.31832E+000 | 2.37000E-003 | 3.74300E-002 | 3.74300E-002 | 0.00000E+000 | 2.03475E+002 | 2.03475E+002 | 7.91000E-003 | 0.00000E+000 | 2.03672E+002 |
| Graders | 3.83000E-003 | 4.65300E-002 | 1.69300E-002 | 7.00000E-005 | 1.51000E-003 | 1.39000E-003 | 0.00000E+000 | 5.81374E+000 | 5.81374E+000 | 1.88000E-003 | 0.00000E+000 | 5.86075E+000 |
| Pavers | 7.68000E-003 | 7.53100E-002 | 1.15330E-001 | 1.90000E-004 | 3.54000E-003 | 3.26000E-003 | 0.00000E+000 | 1.65187E+001 | 1.65187E+001 | 5.34000E-003 | 0.00000E+000 | 1.66522E+001 |
| Paving Equipment | 6.83000E-003 | 6.41200E-002 | 1.02270E-001 | 1.60000E-004 | 3.12000E-003 | 2.87000E-003 | 0.00000E+000 | 1.43142E+001 | 1.43142E+001 | 4.63000E-003 | 0.00000E+000 | 1.44299E+001 |
| Rollers | 6.15000E-003 | 6.44000E-002 | 7.40900E-002 | 1.00000E-004 | 3.54000E-003 | 3.26000E-003 | 0.00000E+000 | 9.22090E+000 | 9.22090E+000 | 2.98000E-003 | 0.00000E+000 | 9.29546E+000 |
| Rubber Tired Dozers | 6.84700E-002 | 7.12720E-001 | 3.10630E-001 | 8.50000E-004 | 3.20900E-002 | 2.95200E-002 | 0.00000E+000 | 7.50242E+001 | 7.50242E+001 | 2.42600E-002 | 0.00000E+000 | 7.56309E+001 |
| Scrapers | 1.57400E-002 | 1.65670E-001 | 1.22740E-001 | 3.00000E-004 | 6.50000E-003 | 5.98000E-003 | 0.00000E+000 | 2.66736E+001 | 2.66736E+001 | 8.63000E-003 | 0.00000E+000 | 2.68892E+001 |
| Tractors/Loaders/ Backhoes | 1.51770E-001 | 1.53295E+000 | 2.42160E+000 | 3.38000E-003 | 6.78700E-002 | 6.24400E-002 | 0.00000E+000 | 2.97123E+002 | 2.97123E+002 | 9.61000E-002 | 0.00000E+000 | 2.99526E+002 |
| Welders | 8.23700E-002 | 4.90800E-001 | 5.97040E-001 | 9.20000E-004 | 1.60500E-002 | 1.60500E-002 | 0.00000E+000 | 6.77594E+001 | 6.77594E+001 | 6.70000E-003 | 0.00000E+000 | 6.79269E+001 |

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Mitigated tons/yr | | | | | | Mitigated mt/yr | | | | | |
| Air Compressors | 2.13900E-002 | 4.88510E-001 | 6.59670E-001 | 1.07000E-003 | 3.42300E-002 | 3.42300E-002 | 0.00000E+000 | 9.19170E+001 | 9.19170E+001 | 5.11000E-003 | 0.00000E+000 | 9.20448E+001 |
| Cranes | 4.46600E-002 | 8.63440E-001 | 9.67650E-001 | 1.82000E-003 | 3.27500E-002 | 3.27500E-002 | 0.00000E+000 | 1.59690E+002 | 1.59690E+002 | 5.16500E-002 | 0.00000E+000 | 1.60981E+002 |
| Excavators | 2.54000E-003 | 4.91300E-002 | 7.83600E-002 | 1.00000E-004 | 2.37000E-003 | 2.37000E-003 | 0.00000E+000 | 9.07375E+000 | 9.07375E+000 | 2.93000E-003 | 0.00000E+000 | 9.14712E+000 |
| Forklifts | 4.06900E-002 | 9.29000E-001 | 1.25450E+000 | 1.65000E-003 | 6.51000E-002 | 6.51000E-002 | 0.00000E+000 | 1.45034E+002 | 1.45034E+002 | 4.69100E-002 | 0.00000E+000 | 1.46207E+002 |
| Generator Sets | 4.73600E-002 | 1.08140E+000 | 1.46029E+000 | 2.37000E-003 | 7.57800E-002 | 7.57800E-002 | 0.00000E+000 | 2.03474E+002 | 2.03474E+002 | 7.91000E-003 | 0.00000E+000 | 2.03672E+002 |
| Graders | 1.62000E-003 | 3.13700E-002 | 3.51600E-002 | 7.00000E-005 | 1.19000E-003 | 1.19000E-003 | 0.00000E+000 | 5.81373E+000 | 5.81373E+000 | 1.88000E-003 | 0.00000E+000 | 5.86074E+000 |
| Pavers | 4.62000E-003 | 8.93600E-002 | 1.42520E-001 | 1.90000E-004 | 4.31000E-003 | 4.31000E-003 | 0.00000E+000 | 1.65186E+001 | 1.65186E+001 | 5.34000E-003 | 0.00000E+000 | 1.66522E+001 |
| Paving Equipment | 4.02000E-003 | 7.77800E-002 | 1.24040E-001 | 1.60000E-004 | 3.75000E-003 | 3.75000E-003 | 0.00000E+000 | 1.43142E+001 | 1.43142E+001 | 4.63000E-003 | 0.00000E+000 | 1.44299E+001 |
| Rollers | 2.57000E-003 | 5.87600E-002 | 7.93500E-002 | 1.00000E-004 | 4.12000E-003 | 4.12000E-003 | 0.00000E+000 | 9.22089E+000 | 9.22089E+000 | 2.98000E-003 | 0.00000E+000 | 9.29545E+000 |
| Rubber Tired Dozers | 2.09100E-002 | 4.04270E-001 | 4.53060E-001 | 8.50000E-004 | 1.53300E-002 | 1.53300E-002 | 0.00000E+000 | 7.50242E+001 | 7.50242E+001 | 2.42600E-002 | 0.00000E+000 | 7.56308E+001 |
| Scrapers | 7.46000E-003 | 1.44160E-001 | 1.61560E-001 | 3.00000E-004 | 5.47000E-003 | 5.47000E-003 | 0.00000E+000 | 2.66735E+001 | 2.66735E+001 | 8.63000E-003 | 0.00000E+000 | 2.68892E+001 |
| Tractors/Loaders/Backhoes | 8.24200E-002 | 1.88182E+000 | 2.54114E+000 | 3.38000E-003 | 1.31860E-001 | 1.31860E-001 | 0.00000E+000 | 2.97123E+002 | 2.97123E+002 | 9.61000E-002 | 0.00000E+000 | 2.99525E+002 |
| Welders | 3.81100E-002 | 6.08520E-001 | 5.38870E-001 | 9.20000E-004 | 3.68000E-002 | 3.68000E-002 | 0.00000E+000 | 6.77594E+001 | 6.77594E+001 | 6.70000E-003 | 0.00000E+000 | 6.79268E+001 |

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | | | | | | | | | | | | |
| Air Compressors | 6.62565E-001 | -1.45688E-001 | -1.25869E-002 | 0.00000E+000 | -6.84547E-001 | -6.84547E-001 | 0.00000E+000 | 1.08794E-006 | 1.08794E-006 | 0.00000E+000 | 0.00000E+000 | 1.19507E-006 |
| Cranes | 5.61383E-001 | 1.81690E-001 | -7.46030E-001 | 0.00000E+000 | 2.62553E-001 | 1.98483E-001 | 0.00000E+000 | 1.18981E-006 | 1.18981E-006 | 0.00000E+000 | 0.00000E+000 | 1.18026E-006 |
| Excavators | 3.26260E-001 | -5.86374E-001 | -2.02578E-001 | 0.00000E+000 | -5.59211E-001 | -7.05036E-001 | 0.00000E+000 | 1.10208E-006 | 1.10208E-006 | 0.00000E+000 | 0.00000E+000 | 1.09324E-006 |
| Forklifts | 5.85895E-001 | -5.92293E-003 | -2.18045E-002 | 0.00000E+000 | -2.59431E-001 | -3.69085E-001 | 0.00000E+000 | 1.24108E-006 | 1.24108E-006 | 0.00000E+000 | 0.00000E+000 | 1.16273E-006 |
| Generator Sets | 5.24737E-001 | -2.11707E-001 | -1.07690E-001 | 0.00000E+000 | -1.02458E+000 | -1.02458E+000 | 0.00000E+000 | 1.17951E-006 | 1.17951E-006 | 0.00000E+000 | 0.00000E+000 | 1.17836E-006 |
| Graders | 5.77023E-001 | 3.25811E-001 | -1.07679E+000 | 0.00000E+000 | 2.11921E-001 | 1.43885E-001 | 0.00000E+000 | 1.72006E-006 | 1.72006E-006 | 0.00000E+000 | 0.00000E+000 | 1.70627E-006 |
| Pavers | 3.98438E-001 | -1.86562E-001 | -2.35758E-001 | 0.00000E+000 | -2.17514E-001 | -3.22086E-001 | 0.00000E+000 | 1.21075E-006 | 1.21075E-006 | 0.00000E+000 | 0.00000E+000 | 1.20104E-006 |
| Paving Equipment | 4.11420E-001 | -2.13038E-001 | -2.12868E-001 | 0.00000E+000 | -2.01923E-001 | -3.06620E-001 | 0.00000E+000 | 1.39722E-006 | 1.39722E-006 | 0.00000E+000 | 0.00000E+000 | 1.38601E-006 |
| Rollers | 5.82114E-001 | 8.75776E-002 | -7.09947E-002 | 0.00000E+000 | -1.63842E-001 | -2.63804E-001 | 0.00000E+000 | 1.08449E-006 | 1.08449E-006 | 0.00000E+000 | 0.00000E+000 | 1.07579E-006 |
| Rubber Tired Dozers | 6.94611E-001 | 4.32779E-001 | -4.58520E-001 | 0.00000E+000 | 5.22281E-001 | 4.80691E-001 | 0.00000E+000 | 1.19961E-006 | 1.19961E-006 | 0.00000E+000 | 0.00000E+000 | 1.18999E-006 |
| Scrapers | 5.26048E-001 | 1.29836E-001 | -3.16278E-001 | 0.00000E+000 | 1.58462E-001 | 8.52843E-002 | 0.00000E+000 | 1.12471E-006 | 1.12471E-006 | 0.00000E+000 | 0.00000E+000 | 1.11569E-006 |
| Tractors/Loaders/Backhoes | 4.56941E-001 | -2.27581E-001 | -4.93641E-002 | 0.00000E+000 | -9.42832E-001 | -1.11179E+000 | 0.00000E+000 | 1.21162E-006 | 1.21162E-006 | 0.00000E+000 | 0.00000E+000 | 1.20190E-006 |
| Welders | 5.37332E-001 | -2.39853E-001 | 9.74307E-002 | 0.00000E+000 | -1.29283E+000 | -1.29283E+000 | 0.00000E+000 | 1.18065E-006 | 1.18065E-006 | 0.00000E+000 | 0.00000E+000 | 1.17774E-006 |

## Fugitive Dust Mitigation

| Yes/No | Mitigation Measure | Mitigation Input | | Mitigation Input | | Mitigation Input | |
|---|---|---|---|---|---|---|---|
| No | Soil Stabilizer for unpaved Roads | PM10 Reduction | 0.00 | PM2.5 Reduction | 0.00 | | |

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No | Replace Ground Cover of Area Disturbed | PM10 Reduction | 0.00 | PM2.5 Reduction | 0.00 | | |
| No | Water Exposed Area | PM10 Reduction | 0.00 | PM2.5 Reduction | 0.00 | Frequency (per day) | |
| No | Unpaved Road Mitigation | Moisture Content % | 0.00 | Vehicle Speed (mph) | 0.00 | | |
| No | Clean Paved Road | % PM Reduction | 0.00 | | | | |

| | | Unmitigated | | Mitigated | | Percent Reduction | |
|---|---|---|---|---|---|---|---|
| Phase | Source | PM10 | PM2.5 | PM10 | PM2.5 | PM10 | PM2.5 |
| Architectural Coating | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | Roads | 0.47 | 0.13 | 0.47 | 0.13 | 0.00 | 0.00 |
| Building Construction | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | Roads | 3.08 | 0.83 | 3.08 | 0.83 | 0.00 | 0.00 |
| Grading | Fugitive Dust | 0.09 | 0.04 | 0.09 | 0.04 | 0.00 | 0.00 |
| Grading | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | Fugitive Dust | 0.59 | 0.30 | 0.59 | 0.30 | 0.00 | 0.00 |
| Site Preparation | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## Operational Percent Reduction Summary

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Category | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hearth | 98.48 | 52.93 | 99.39 | 97.25 | 99.29 | 99.29 | 100.00 | 0.00 | 56.52 | 99.69 | 0.00 | 59.07 |
| Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mobile | 3.70 | 6.16 | 6.15 | 7.77 | 7.43 | 7.45 | 0.00 | 7.77 | 7.77 | 5.18 | 6.50 | 7.75 |
| Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Water Indoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.84 | 4.83 | 0.03 | 0.12 | 2.47 |
| Water Outdoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## Operational Mobile Mitigation

Project Setting: Suburban Center

| Mitigation | Category | Measure | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|---|---|---|---|---|---|---|
| No | Land Use | Increase Density | 0.00 | | | |
| No | Land Use | Increase Diversity | 0.17 | 0.43 | | |
| No | Land Use | Improve Walkability Design | 0.00 | | | |
| No | Land Use | Improve Destination Accessibility | 0.00 | | | |
| Yes | Land Use | Increase Transit Accessibility | 0.07 | 0.75 | | |
| No | Land Use | Integrate Below Market Rate Housing | 0.00 | | | |
| | Land Use | Land Use SubTotal | 0.07 | | | |

## Yosemite Square Subdivision Project

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | | |
|---|---|---|---|---|---|---|
| Yes | Neighborhood Enhancements | Improve Pedestrian Network | 1.00 | Project Site | | |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures | | | | |
| No | Neighborhood Enhancements | Implement NEV Network | 0.00 | | | |
| | Neighborhood Enhancements | Neighborhood Enhancements Subtotal | 0.01 | | | |
| No | Parking Policy Pricing | Limit Parking Supply | 0.00 | | | |
| No | Parking Policy Pricing | Unbundle Parking Costs | 0.00 | | | |
| No | Parking Policy Pricing | On-street Market Pricing | 0.00 | | | |
| | Parking Policy Pricing | Parking Policy Pricing Subtotal | 0.00 | | | |
| No | Transit Improvements | Provide BRT System | 0.00 | | | |
| No | Transit Improvements | Expand Transit Network | 0.00 | | | |
| No | Transit Improvements | Increase Transit Frequency | 0.00 | | | |
| | Transit Improvements | Transit Improvements Subtotal | 0.00 | | | |
| | | Land Use and Site Enhancement Subtotal | 0.08 | | | |
| No | Commute | Implement Trip Reduction Program | | | | |
| No | Commute | Transit Subsidy | | | | |
| No | Commute | Implement Employee Parking "Cash Out" | 4.50 | | | |
| No | Commute | Workplace Parking Charge | | | | |
| No | Commute | Encourage Telecommuting and Alternative Work Schedules | 0.00 | | | |
| No | Commute | Market Commute Trip Reduction Option | 0.00 | | | |
| No | Commute | Employee Vanpool/Shuttle | 0.00 | | 2.00 | |

# Yosemite Square Subdivision Project

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | | | | |
|---|---|---|---|---|---|---|
| No | Commute | Provide Ride Sharing Program | 10.00 | | | |
| | Commute | Commute Subtotal | 0.00 | | | |
| No | School Trip | Implement School Bus Program | 0.00 | | | |
| | | Total VMT Reduction | 0.08 | | | |

## Area Mitigation

| Measure Implemented | Mitigation Measure | Input Value |
|---|---|---|
| Yes | Only Natural Gas Hearth | |
| No | No Hearth | |
| No | Use Low VOC Cleaning Supplies | |
| No | Use Low VOC Paint (Residential Interior) | 150.00 |
| No | Use Low VOC Paint (Residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Non-residential Interior) | 150.00 |
| No | Use Low VOC Paint (Non-residential Exterior) | 150.00 |
| No | Use Low VOC Paint (Parking) | 150.00 |
| No | % Electric Lawnmower | 0.00 |
| No | % Electric Leafblower | 0.00 |
| No | % Electric Chainsaw | 0.00 |

## Energy Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---|---|---|---|
| No | Exceed Title 24 | | |

# Yosemite Square Subdivision Project

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

| | | | |
|---|---|---|---|
| No | Install High Efficiency Lighting | | |
| No | On-site Renewable | | |

| Appliance Type | Land Use Subtype | % Improvement |
|---|---|---|
| ClothWasher | | 30.00 |
| DishWasher | | 15.00 |
| Fan | | 50.00 |
| Refrigerator | | 15.00 |

## Water Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---|---|---|---|
| Yes | Apply Water Conservation on Strategy | 0.00 | 20.00 |
| No | Use Reclaimed Water | 0.00 | 0.00 |
| No | Use Grey Water | 0.00 | |
| No | Install low-flow bathroom faucet | 32.00 | |
| No | Install low-flow Kitchen faucet | 18.00 | |
| No | Install low-flow Toilet | 20.00 | |
| No | Install low-flow Shower | 20.00 | |
| No | Turf Reduction | 0.00 | |
| No | Use Water Efficient Irrigation Systems | 6.10 | |
| No | Water Efficient Landscape | 0.00 | 0.00 |

## Solid Waste Mitigation

# Yosemite Square Subdivision Project

## EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Mitigation Measures | Input Value |
|---|---|
| Institute Recycling and Composting Services<br>Percent Reduction in Waste Disposed | |

# Road Construction Emissions Model Version 9.0.0

## Data Entry Worksheet

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 D10 through D24, E28 through G35, and D38 through D41 for all project types.
Please use "Clear Data Input & User Overrides" button first before changing the Project Type or begin a new project.

To begin a new project, click this button to clear data previously entered. This button will only work if you opted not to disable macros when loading this spreadsheet.

SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT

## Input Type

| | | |
|---|---|---|
| Project Name | Yosemite Square | |
| Construction Start Year | 2023 | Enter a Year between 2014 and 2040 (inclusive) |
| Project Type<br>For 4: Other Linear Project Type, please provide project specific off-road equipment population and vehicle trip data | 4 | 1) New Road Construction : Project to build a roadway from bare ground, which generally requires more site preparation than widening an existing roadway<br>2) Road Widening : Project to add a new lane to an existing roadway<br>3) Bridge/Overpass Construction : Project to build an elevated roadway, which generally requires some different equipment than a new roadway, such as a crane<br>4) Other Linear Project Type: Non-roadway project such as a pipeline, transmission line, or levee construction |
| Project Construction Time | 1.00 | month |
| Working Days per Month | 22.00 | days (assume 22 if unknown) |
| Predominant Soil/Site Type: Enter 1, 2, or 3<br>(for project within "Sacramento County", follow soil type selection instructions in cells E18 to E20 otherwise see instructions provided in cells J18 to J22) | 2 | 1) Sand Gravel : Use for quaternary deposits (Delta/West County)<br>2) Weathered Rock-Earth : Use for Laguna formation (Jackson Highway area) or the lone formation (Scott Road, Rancho Murieta)<br>3) Blasted Rock : Use for Salt Springs Slate or Copper Hill Volcanics (Folsom South of Highway 50, Rancho Murieta) |
| Project Length | 1.54 | miles |
| Total Project Area | 0.56 | acres |
| Maximum Area Disturbed/Day | 0.56 | acres |
| Water Trucks Used? | 2 | 1. Yes<br>2. No |

Please note that the soil type instructions provided in cells E18 to E20 are specific to Sacramento County. Maps available from the California Geologic Survey (see weblink below) can be used to determine soil type outside Sacramento County.

http://www.conservation.ca.gov/cgs/information/geologic_mapping/Pages/googlemaps.aspx#regionalseries

## Material Hauling Quantity Input

| Material Type | Phase | Haul Truck Capacity ($yd^3$) (assume 20 if unknown) | Import Volume ($yd^3$/day) | Export Volume ($yd^3$/day) |
|---|---|---|---|---|
| Soil | Grubbing/Land Clearing | 20.00 | 0.00 | 0.00 |
| | Grading/Excavation | 20.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 20.00 | 0.00 | 3.69 |
| | Paving | 20.00 | 0.00 | 0.00 |
| Asphalt | Grubbing/Land Clearing | 20.00 | 0.00 | 0.00 |
| | Grading/Excavation | 20.00 | 0.00 | 0.00 |
| | Drainage/Utilities/Sub-Grade | 20.00 | 0.00 | 0.00 |
| | Paving | 20.00 | 0.00 | 0.00 |

## Mitigation Options

| | | |
|---|---|---|
| On-road Fleet Emissions Mitigation | 2010 and Newer On-road Vehicles Fleet | Select "2010 and Newer On-road Vehicles Fleet" option when the on-road heavy-duty truck fleet for the project will be limited to vehicles of model year 2010 or newer |
| Off-road Equipment Emissions Mitigation | No Mitigation | Select "20% NOx and 45% Exhaust PM reduction" option if the project will be required to use a lower emitting off-road construction fleet. The SMAQMD Construction Mitigation Calculator can be used to confirm compliance with this mitigation measure (http://www.airquality.org/Businesses/CEQA-Land-Use-Planning/Mitigation).<br>Select "Tier 4 Equipment" option if some or all off-road equipment used for the project meets CARB Tier 4 Standard |

**The remaining sections of this sheet contain areas that require modification when 'Other Project Type' is selected.**

Note: The program's estimates of construction period phase length can be overridden in cells D50 through D53, and F50 through F53.

| Construction Periods | User Override of Construction Months | Program Calculated Months | User Override of Phase Starting Date | Program Default Phase Starting Date |
|---|---|---|---|---|
| Grubbing/Land Clearing | 0.00 | 0.10 | | 1/1/2023 |
| Grading/Excavation | 0.00 | 0.45 | | 1/1/2023 |
| Drainage/Utilities/Sub-Grade | | 0.30 | | 1/1/2023 |
| Paving | 0.00 | 0.15 | | 1/11/2023 |
| **Totals (Months)** | | 0 | | |

Note: Soil Hauling emission default values can be overridden in cells D61 through D64, and F61 through F64.

| Soil Hauling Emissions<br>**User Input** | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT |
|---|---|---|---|---|---|
| Miles/round trip: Grubbing/Land Clearing | 15.00 | | | 0 | 0.00 |
| Miles/round trip: Grading/Excavation | 15.00 | | | 0 | 0.00 |
| Miles/round trip: Drainage/Utilities/Sub-Grade | 15.00 | | | 1 | 15.00 |
| Miles/round trip: Paving | 15.00 | | | 0 | 0.00 |

| **2010+ Model Year Mitigation Option Emission Rates** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|
| Grubbing/Land Clearing (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.40 | 2.98 | 0.11 | 0.05 | 0.02 | 1,714.99 | 0.00 | 0.27 | 1,795.36 |
| Paving (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Hauling Emissions** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.01 | 0.11 | 0.00 | 0.00 | 0.00 | 56.71 | 0.00 | 0.01 | 59.37 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.20 |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons per construction project | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.19 | 0.00 | 0.00 | 0.20 |

Note: Asphalt Hauling emission default values can be overridden in cells D91 through D94, and F91 through F94.

| Asphalt Hauling Emissions<br>**User Input** | User Override of Miles/Round Trip | Program Estimate of Miles/Round Trip | User Override of Truck Round Trips/Day | Default Values Round Trips/Day | Calculated Daily VMT |
|---|---|---|---|---|---|
| Miles/round trip: Grubbing/Land Clearing | 15.00 | | | 0 | 0.00 |
| Miles/round trip: Grading/Excavation | 15.00 | | | 0 | 0.00 |
| Miles/round trip: Drainage/Utilities/Sub-Grade | 15.00 | | | 0 | 0.00 |
| Miles/round trip: Paving | 15.00 | | | 0 | 0.00 |

| **2010+ Model Year Mitigation Option Emission Rates** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|
| Grubbing/Land Clearing (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.40 | 2.98 | 0.11 | 0.05 | 0.02 | 1,714.99 | 0.00 | 0.27 | 1,795.36 |
| Paving (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Emissions** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons per construction project | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: Worker commute default values can be overridden in cells D121 through D126.

| Worker Commute Emissions | User Override of Worker Commute Default Values | Default Values | | |
|---|---|---|---|---|
| **User Input** | | | | |
| Miles/ one-way trip | 0 | | Calculated Daily Trips | Calculated Daily VMT |
| One-way trips/day | 0 | | | |
| No. of employees: Grubbing/Land Clearing | 0 | | 0 | 0.00 |
| No. of employees: Grading/Excavation | 0 | | 0 | 0.00 |
| No. of employees: Drainage/Utilities/Sub-Grade | 0 | | 0 | 0.00 |
| No. of employees: Paving | 0 | | 0 | 0.00 |

| **Emission Rates** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|
| Grubbing/Land Clearing (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.02 | 0.91 | 0.07 | 0.05 | 0.02 | 0.00 | 317.66 | 0.00 | 0.01 | 319.68 |
| Paving (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/trip) | 1.04 | 2.75 | 0.29 | 0.00 | 0.00 | 0.00 | 68.26 | 0.07 | 0.03 | 79.50 |
| Paving (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Emissions** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons per construction project | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: Water Truck default values can be overridden in cells D153 through D156, I153 through I156, and F153 through F156.

| Water Truck Emissions | User Override of Default # Water Trucks | Program Estimate of Number of Water Trucks | User Override of Truck Round Trips/Vehicle/Day | Default Values Round Trips/Vehicle/Day | Calculated Trips/day | User Override of Miles/Round Trip | Default Values Miles/Round Trip | Calculated Daily VMT |
|---|---|---|---|---|---|---|---|---|
| **User Input** | | | | | | | | |
| Grubbing/Land Clearing - Exhaust | | | | | | | | 0.00 |
| Grading/Excavation - Exhaust | | | | | | | | 0.00 |
| Drainage/Utilities/Subgrade | | | | | | | | 0.00 |
| Paving | | | | | | | | 0.00 |

| **2010+ Model Year Mitigation Option Emission Rates** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
|---|---|---|---|---|---|---|---|---|---|---|
| Grubbing/Land Clearing (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/mile) | 0.03 | 0.40 | 2.98 | 0.11 | 0.05 | 0.02 | 1,714.99 | 0.00 | 0.27 | 1,795.36 |
| Paving (grams/mile) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Draining/Utilities/Sub-Grade (grams/trip) | 0.00 | 0.00 | 4.43 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving (grams/trip) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Emissions** | **ROG** | **CO** | **NOx** | **PM10** | **PM2.5** | **SOx** | **CO2** | **CH4** | **N2O** | **CO2e** |
| Pounds per day - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grubbing/Land Clearing | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Grading/Excavation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Drainage/Utilities/Sub-Grade | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Pounds per day - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Tons per const. Period - Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Total tons per construction project | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Note: Fugitive dust default values can be overridden in cells D183 through D185.

| Fugitive Dust | User Override of Max Acreage Disturbed/Day | Default Maximum Acreage/Day | PM10 pounds/day | PM10 tons/per period | PM2.5 pounds/day | PM2.5 tons/per period |
|---|---|---|---|---|---|---|
| Fugitive Dust - Grubbing/Land Clearing | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Fugitive Dust - Grading/Excavation | | | 0.00 | 0.00 | 0.00 | 0.00 |
| Fugitive Dust - Drainage/Utilities/Subgrade | | | 11.20 | 0.04 | 2.33 | 0.01 |

Values in cells D195 through D228, D246 through D279, D297 through D330, and D348 through D381 are required when 'Other Project Type' is selected.

**Off-Road Equipment Emissions**

| **Grubbing/Land Clearing** | Default Number of Vehicles | Mitigation Option Override of | Current | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Override of Default Number of Vehicles | *Program-estimate* | Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Equipment Tier | Type | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Signal Boards | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| **User-Defined Off-road Equipment** | If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of Vehicles | Equipment Tier | Type | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing | | pounds per day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grubbing/Land Clearing | | tons per phase | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Grading/Excavation | Default Number of Vehicles | Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Current Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Override of Default Number of Vehicles | *Program-estimate* | | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Signal Boards | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**User-Defined Off-road Equipment** — If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

| Number of Vehicles | Equipment Tier | Type | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| Grading/Excavation | pounds per day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading/Excavation | tons per phase | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Drainage/Utilities/Subgrade | Default Number of Vehicles | Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Current Equipment Tier | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Override of Default Number of Vehicles | *Program-estimate* | | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | | | Model Default Tier | Air Compressors | 0.26 | 2.41 | 1.74 | 0.09 | 0.09 | 0.00 | 375.26 | 0.02 |
| | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | | | Model Default Tier | Concrete/Industrial Saws | 0.33 | 3.66 | 2.58 | 0.13 | 0.13 | 0.01 | 592.67 | 0.03 |
| | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | | | Model Default Tier | Generator Sets | 0.31 | 3.67 | 2.72 | 0.13 | 0.13 | 0.01 | 623.04 | 0.03 |
| | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1.00 | | | Model Default Tier | Paving Equipment | 0.17 | 2.56 | 1.60 | 0.08 | 0.07 | 0.00 | 394.47 | 0.13 |
| | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.00 | | | Model Default Tier | Signal Boards | 0.17 | 0.90 | 1.08 | 0.04 | 0.04 | 0.00 | 147.94 | 0.02 |
| | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.00 | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.30 | 4.46 | 3.07 | 0.15 | 0.14 | 0.01 | 603.15 | 0.20 |
| 1.00 | | | Model Default Tier | Trenchers | 0.35 | 2.59 | 3.23 | 0.22 | 0.21 | 0.00 | 327.20 | 0.11 |
| | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

**User-Defined Off-road Equipment** — If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab

| Number of Vehicles | Equipment Tier | Type | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| Drainage/Utilities/Sub-Grade | pounds per day | | 1.89 | 20.26 | 16.02 | 0.85 | 0.81 | 0.03 | 3,063.73 | 0.52 |
| Drainage/Utilities/Sub-Grade | tons per phase | | 0.01 | 0.07 | 0.05 | 0.00 | 0.00 | 0.00 | 10.11 | 0.00 |

| Paving | Default Number of Vehicles | Mitigation Option: Override of Default Equipment Tier (applicable only when "Tier 4 Mitigation" Option Selected) | Current Equipment Tier | Type | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Override of Default Number of Vehicles | *Program-estimate* | | | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| | | | Model Default Tier | Aerial Lifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Air Compressors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Bore/Drill Rigs | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cement and Mortar Mixers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Concrete/Industrial Saws | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Cranes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crawler Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Crushing/Proc. Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Excavators | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Generator Sets | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Graders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Tractors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Off-Highway Trucks | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Construction Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other General Industrial Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Other Material Handling Equipm | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pavers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Paving Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Plate Compactors | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pressure Washers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Pumps | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rollers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rough Terrain Forklifts | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Dozers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Rubber Tired Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Scrapers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Signal Boards | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Skid Steer Loaders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Surfacing Equipment | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Sweepers/Scrubbers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Tractors/Loaders/Backhoes | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Trenchers | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | | Model Default Tier | Welders | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| User-Defined Off-road Equipment | If non-default vehicles are used, please provide information in 'Non-default Off-road Equipment' tab | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Number of Vehicles | Equipment Tier | Type | | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day | pounds/day |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | N/A | | 0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | ROG | CO | NOx | PM10 | PM2.5 | SOx | CO2 | CH4 |
|---|---|---|---|---|---|---|---|---|---|---|
| Paving | pounds per day | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | tons per phase | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Total Emissions all Phases (tons per construction period) =>** | | | 0.01 | 0.07 | 0.05 | 0.00 | 0.00 | 0.00 | 10.11 | 0.00 |

| N2O | CO2e |
|---|---|
| pounds/day | pounds/day |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 

| N2O<br>pounds/day | CO2e<br>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 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |

| N2O<br>pounds/day | CO2e<br>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 |

| N2O<br>pounds/day | CO2e<br>pounds/day |
|---|---|
| 0.00 | 0.00 |
| 0.00 | 376.67 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 594.72 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 625.12 |
| 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 | 398.72 |
| 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 | 148.69 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.01 | 609.64 |
| 0.00 | 330.72 |
| 0.00 | 0.00 |

| N2O<br>pounds/day | CO2e<br>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 |

| | |
|---|---|
| 0.03 | 3,084.29 |
| 0.00 | 10.18 |

| N2O<br>pounds/day | CO2e<br>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 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |
| 0.00 | 0.00 |

| N2O<br>pounds/day | CO2e<br>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 | 10.18 |

Equipment default values for horsepower and hours/day can be overridden in cells D403 through D436 and F403 through F436.

| Equipment | User Override of Horsepower | Default Values Horsepower | User Override of Hours/day | Default Values Hours/day |
|---|---|---|---|---|
| Aerial Lifts | | 63 | | 8 |
| Air Compressors | | 78 | | 8 |
| Bore/Drill Rigs | | 221 | | 8 |
| Cement and Mortar Mixers | | 9 | | 8 |
| Concrete/Industrial Saws | | 81 | | 8 |
| Cranes | | 231 | | 8 |
| Crawler Tractors | | 212 | | 8 |
| Crushing/Proc. Equipment | | 85 | | 8 |
| Excavators | | 158 | | 8 |
| Forklifts | | 89 | | 8 |
| Generator Sets | | 84 | | 8 |
| Graders | | 187 | | 8 |
| Off-Highway Tractors | | 124 | | 8 |
| Off-Highway Trucks | | 402 | | 8 |
| Other Construction Equipment | | 172 | | 8 |
| Other General Industrial Equipment | | 88 | | 8 |
| Other Material Handling Equipment | | 168 | | 8 |
| Pavers | | 130 | | 8 |
| Paving Equipment | | 132 | | 8 |
| Plate Compactors | | 8 | | 8 |
| Pressure Washers | | 13 | | 8 |
| Pumps | | 84 | | 8 |
| Rollers | | 80 | | 8 |
| Rough Terrain Forklifts | | 100 | | 8 |
| Rubber Tired Dozers | | 247 | | 8 |
| Rubber Tired Loaders | | 203 | | 8 |
| Scrapers | | 367 | | 8 |
| Signal Boards | | 6 | | 8 |
| Skid Steer Loaders | | 65 | | 8 |
| Surfacing Equipment | | 263 | | 8 |
| Sweepers/Scrubbers | | 64 | | 8 |
| Tractors/Loaders/Backhoes | | 97 | | 8 |
| Trenchers | | 78 | | 8 |
| Welders | | 46 | | 8 |

**END OF DATA ENTRY SHEET**

The maximum pounds per day in row 11 is summed over overlapping phases, but the maximum tons per phase in row 34 is not summed over overlapping phases.

# Road Construction Emissions Model, Version 9.0.0

## Daily Emission Estimates for -> Yosemite Square

| Project Phases (Pounds) | ROG (lbs/day) | CO (lbs/day) | NOx (lbs/day) | Total PM10 (lbs/day) | Exhaust PM10 (lbs/day) | Fugitive Dust PM10 (lbs/day) | Total PM2.5 (lbs/day) | Exhaust PM2.5 (lbs/day) | Fugitive Dust PM2.5 (lbs/day) | SOx (lbs/day) | CO2 (lbs/day) | CH4 (lbs/day) | N2O (lbs/day) | CO2e (lbs/day) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 0.00 | 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 |
| **Grading/Excavation** | 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 |
| **Drainage/Utilities/Sub-Grade** | 1.89 | 20.27 | 16.13 | 12.05 | 0.85 | 11.20 | 3.14 | 0.81 | 2.33 | 0.03 | 3,120.44 | 0.52 | 0.03 | 3,143.66 |
| **Paving** | 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 |
| **Maximum (pounds/day)** | 1.89 | 20.27 | 16.13 | 12.05 | 0.85 | 11.20 | 3.14 | 0.81 | 2.33 | 0.03 | 3,120.44 | 0.52 | 0.03 | 3,143.66 |
| **Total (tons/construction project)** | 0.01 | 0.07 | 0.05 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 10.30 | 0.00 | 0.00 | 10.37 |

Notes:

| | |
|---|---|
| Project Start Year -> | 2023 |
| Project Length (months) -> | 1 |
| Total Project Area (acres) -> | 1 |
| Maximum Area Disturbed/Day (acres) -> | 1 |
| Water Truck Used? -> | No |

| | Total Material Imported/Exported Volume ($yd^3$/day) | | Daily VMT (miles/day) | | | |
|---|---|---|---|---|---|---|
| Phase | Soil | Asphalt | Soil Hauling | Asphalt Hauling | Worker Commute | Water Truck |
| Grubbing/Land Clearing | 0 | 0 | 0 | 0 | 0 | 0 |
| Grading/Excavation | 0 | 0 | 0 | 0 | 0 | 0 |
| Drainage/Utilities/Sub-Grade | 4 | 0 | 15 | 0 | 0 | 0 |
| Paving | 0 | 0 | 0 | 0 | 0 | 0 |

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

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

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

## Total Emission Estimates by Phase for -> Yosemite Square

| Project Phases (Tons for all except CO2e. Metric tonnes for CO2e) | ROG (tons/phase) | CO (tons/phase) | NOx (tons/phase) | Total PM10 (tons/phase) | Exhaust PM10 (tons/phase) | Fugitive Dust PM10 (tons/phase) | Total PM2.5 (tons/phase) | Exhaust PM2.5 (tons/phase) | Fugitive Dust PM2.5 (tons/phase) | SOx (tons/phase) | CO2 (tons/phase) | CH4 (tons/phase) | N2O (tons/phase) | CO2e (MT/phase) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Grubbing/Land Clearing** | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| **Grading/Excavation** | 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 |
| **Drainage/Utilities/Sub-Grade** | 0.01 | 0.07 | 0.05 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 10.30 | 0.00 | 0.00 | 9.41 |
| **Paving** | 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 |
| **Maximum (tons/phase)** | 0.01 | 0.07 | 0.05 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 10.30 | 0.00 | 0.00 | 9.41 |
| **Total (tons/construction project)** | 0.01 | 0.07 | 0.05 | 0.04 | 0.00 | 0.04 | 0.01 | 0.00 | 0.01 | 0.00 | 10.30 | 0.00 | 0.00 | 9.41 |

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

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

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

The CO2e emissions are reported as metric tons per phase.

# AERMOD Model Options

## Model Options

| Pathway | Keyword | Description | Value |
|---|---|---|---|
| CO | TITLEONE | Project title 1 | Yosemite Square Subdivision Project |
| CO | TITLETWO | Project title 2 | |
| CO | MODELOPT | Model options | DFAULT,CONC,NODRYDPLT,NOWETDPLT |
| CO | AVERTIME | Averaging times | 1,ANNUAL |
| CO | URBANOPT | Urban options | |
| CO | POLLUTID | Pollutant ID | PM25 H1H |
| CO | HALFLIFE | Half life | |
| CO | DCAYCOEF | Decay coefficient | |
| CO | FLAGPOLE | Flagpole receptor heights | 1.8 |
| CO | RUNORNOT | Run or Not | RUN |
| CO | EVENTFIL | Event file | F |
| CO | SAVEFILE | Save file | F |
| CO | INITFILE | Initialization file | |
| CO | MULTYEAR | Multiple year option | N/A |
| CO | DEBUGOPT | Debug options | N/A |
| CO | ERRORFIL | Error file | F |
| SO | ELEVUNIT | Elevation units | METERS |
| SO | EMISUNIT | Emission units | N/A |
| RE | ELEVUNIT | Elevation units | METERS |
| ME | SURFFILE | Surface met file | C:\Users\bshea\Desktop\METEOR~1\STOCKTON_2013-2017.SFC |
| ME | PROFFILE | Profile met file | C:\Users\bshea\Desktop\METEOR~1\STOCKTON_2013-2017.PFL |
| ME | SURFDATA | Surf met data info. | 23237 2013 |
| ME | UAIRDATA | U-Air met data info. | 23230 2013 |
| ME | SITEDATA | On-site met data info. | |
| ME | PROFBASE | Elev. above MSL | 7.9 |
| ME | STARTEND | Start-end met dates | |
| ME | WDROTATE | Wind dir. rot. adjust. | |
| ME | WINDCATS | Wind speed cat. max. | |
| ME | SCIMBYHR | SCIM sample params | |
| EV | DAYTABLE | Print summary opt. | N/A |
| OU | EVENTOUT | Output info. level | N/A |

| | | | |
|---|---|---|---|
| OU | DAYTABLE | Print summary opt. | |

# Source Parameter Tables

## All Sources

| Source ID / Pollutant ID | Source Type | Description | UTM | | Elev. | Emiss. Rate | Emiss. Units | Release Height |
|---|---|---|---|---|---|---|---|---|
| | | | East (m) | North (m) | (m) | | | (m) |
| V3Y3Z26L | LINE | | 659259.5 | 4184877.2 | 0 | 1.33743E-07 | (g/s-m**2) | 4.395 |

## EPA Line Sources

| Source ID / Pollutant ID | Description | UTM | | Elev. | Emiss. Rate | Release Height | End X | End Y | Width | Init. Vert. Dim. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | East (m) | North (m) | (m) | (g/s-m**2) | (m) | (m) | (m) | (m) | (m) |
| V3Y3Z26L | | 659259.5 | 4184877.2 | 0 | 1.33743E-07 | 4.395 | 24 | 1.02 | 659598.3 | 4183199 |

# BREEZE AERMOD Model Results

## Max. Annual ( 5 YEARS) Results of Pollutant: PM25 (ug/m**3)

| Group ID | High | Avg. Conc. | UTM | | Elev. | Hill Ht. | Flag Ht. | Rec. Type | Grid ID |
|---|---|---|---|---|---|---|---|---|---|
| | | | East (m) | North (m) | (m) | (m) | (m) | | |
| ALL | 1ST | 0.19594 | 659445.90 | 4184105.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 2ND | 0.19477 | 659425.90 | 4184205.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 3RD | 0.19317 | 659405.90 | 4184305.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 4TH | 0.19126 | 659385.90 | 4184405.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 5TH | 0.18884 | 659525.90 | 4183725.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 6TH | 0.18869 | 659505.90 | 4183825.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 7TH | 0.18853 | 659545.90 | 4183625.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 8TH | 0.18852 | 659485.90 | 4183925.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 9TH | 0.18821 | 659465.90 | 4184025.40 | 0.00 | 0.00 | 1.80 | DC | |
| | 10TH | 0.18744 | 659445.90 | 4184125.40 | 0.00 | 0.00 | 1.80 | DC | |

## Highest Results of Pollutant: PM25

| Avg. Per. | Grp ID | High | Type | Val | Units | Date | UTM | | Elev. | Hill Ht. | Flag Ht. | Rec. Type | Grid ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | YYMMDDHH | East (m) | North (m) | (m) | (m) | (m) | | |
| 1-HR | ALL | 1ST | Avg. Conc. | 3.06314 | ug/m**3 | 14122309 | 659385.90 | 4184405.40 | 0.00 | 0.00 | 1.80 | DC | |

## Summary of Total Messages

| # | Message Type |
|---|---|
| 0 | Fatal Error Message(s) |
| 14 | Warning Message(s) |
| 971 | Informational Message(s) |
| 43824 | Hours Were Processed |
| 442 | Calm Hours Identified |
| 529 | Missing Hours Identified ( 1.21 Percent) |

## Error & Warning Messages

| Msg. Type | Pathway | Ref. # | Description |
|---|---|---|---|
| WARNING | CO | W276 | Special proc for 1h-NO2/SO2 24hPM25 NAAQS disabled PM25 H1H |
| WARNING | CO | W363 | Multiyr 24h/Ann PM25 processing not applicable for PM25 H1H |

| | | | |
|---|---|---|---|
| WARNING | ME | W186 | THRESH_1MIN 1-min ASOS wind speed threshold used 0.50 |

www.breeze-software.com

HARP2 - HRACalc (dated 19044) 3/18/2022 3:04:03 PM - Output Log

GLCs loaded successfully
Pollutants loaded successfully
**********
RISK SCENARIO SETTINGS

Receptor Type: Resident
Scenario: All
Calculation Method: HighEnd

**********
EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25
Total Exposure Duration: 30

Exposure Duration Bin Distribution
3rd Trimester Bin: 0.25
0<2 Years Bin: 2
2<9 Years Bin: 0
2<16 Years Bin: 14
16<30 Years Bin: 14
16 to 70 Years Bin: 0

**********
PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments.  The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True
Soil: False
Dermal: False
Mother's milk: False
Water: False
Fish: False
Homegrown crops: False
Beef: False
Dairy: False
Pig: False
Chicken: False
Egg: False

**********
INHALATION

Daily breathing rate: LongTerm24HR

**Worker Adjustment Factors**

Worker adjustment factors enabled: NO

**Fraction at time at home**
3rd Trimester to 16 years: OFF
16 years to 70 years: ON

**********
TIER 2 SETTINGS

Tier2 adjustments were used in this assessment.  Please see the input file for details.
Tier2 - What was changed: ED or start age changed|
Calculating cancer risk
Cancer risk saved to: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_CancerRisk.csv
Calculating chronic risk
Chronic risk saved to: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_NCChronicRisk.csv
Calculating acute risk
Acute risk saved to: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_NCAcuteRisk.csv
HRA ran successfully

*HARP - HRACalc v19044 3/18/2022 3:04:03 PM - Cancer Risk - Input File: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_HRAInpu

| INDEX | GRP1 | GRP2 | POLID | POLABBREV | CONC | RISK_SUM | SCENARIO | DETAILS | INH_RISK | SOIL_RISK |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 9901 | DieselExhPM | 0.19594 | 1.70E-04 | 30YrCancerHighEnd_Inh_FAH16to70 | * | 1.70E-04 | 0.00E+00 |

ıt.hra

| DERMAL_RISK | MMILK_RISK | WATER_RISK | FISH_RISK | CROP_RISK | BEEF_RISK | DAIRY_RISK | PIG_RISK | CHICKEN_RISK | EGG_RISK | 1ST_DRIVER |
|---|---|---|---|---|---|---|---|---|---|---|
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | NA |

| 2ND_DRIVER | PASTURE_CONC | FISH_CONC | WATER_CONC |
|---|---|---|---|
| NA | 0.00E+00 | 0.00E+00 | 0.00E+00 |

*HARP - HRACalc v19044 3/18/2022 3:04:03 PM - Chronic Risk - Input File: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_HRAInput.l

| INDEX | GRP1 | GRP2 | POLID | POLABBREV | CONC | SCENARIO | CV | CNS | IMMUN | KIDNEY | GILV |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 9901 | DieselExhPM | 0.19594 | NonCancerChronicHighEnd_Inh | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

hra

| REPRO/DEVEL | RESP | SKIN | EYE | BONE/TEETH | ENDO | BLOOD | ODOR | GENERAL | DETAILS | INH_CONC | SOIL_DOSE |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00E+00 | 3.92E-02 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | * | 1.96E-01 | 0.00E+00 |

| DERMAL_DOSE | MMILK_DOSE | WATER_DOSE | FISH_DOSE | CROP_DOSE | BEEF_DOSE | DAIRY_DOSE | PIG_DOSE | CHICKEN_DOSE | EGG_DOSE |
|---|---|---|---|---|---|---|---|---|---|
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

| 1ST_DRIVER | 2ND_DRIVER | 3RD_DRIVER | PASTURE_CONC | FISH_CONC | WATER_CONC |
|---|---|---|---|---|---|
| INHALATION | NA | NA | 0.00E+00 | 0.00E+00 | 0.00E+00 |

*HARP - HRACalc v19044 3/18/2022 3:04:03 PM - Acute Risk - Input File: C:\Users\bshea\Desktop\HARP\Yosemite Square Model Run 4_HRAInput.hr

| INDEX | GRP1 | GRP2 | POLID | POLABBREV | CONC | SCENARIO | CV | CNS | IMMUN | KIDNEY | GILV | REPRO/DEVEL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 9901 | DieselExhPM | 3.06314 | NonCancerAcute | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

a

| RESP | SKIN | EYE | BONE/TEETH | ENDO | BLOOD | ODOR | GENERAL |
|---|---|---|---|---|---|---|---|
| 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 |

# APPENDIX B

## BIOLOGICAL RESOURCES EVALUATION

HELIX
Environmental Planning

# Yosemite Square Project

## Biological Resources Evaluation

April 2021 | IPQ-44

*Prepared for:*

**Kevin Fryer**
**Integral Partners Funding, LLC**
500 La Gonda Way, #102
Danville, CA 94526

*Prepared by:*

**HELIX Environmental Planning, Inc.**
1677 Eureka Road, Suite 100
Roseville, CA 95661

# Yosemite Square Project

## Biological Resources Evaluation

*Prepared for:*

**Kevin Fryer**
**Integral Partners Funding, LLC**
500 La Gonda Way, #102
Danville, CA 94526

*Prepared by:*

**HELIX Environmental Planning, Inc.**
1677 Eureka Road, Suite 100
Roseville, CA 95661

April 2021 | IPQ-44

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# ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| BRA | Biological Resources Assessment |
| CDFW | California Department of Fish and Wildlife |
| CEQA | California Environmental Quality Act |
| CESA | California Endangered Species Act |
| CNDDB | California Natural Diversity Database |
| CNPS | California Native Plant Society |
| CSA | California Special Animals |
| CWA | Clean Water Act |
| DBH | diameter at breast height |
| EPA | U.S. Environmental Protection Agency |
| FESA | Federal Endangered Species Act |
| HCP | Habitat Conservation Plan |
| HELIX | HELIX Environmental Planning, Inc. |
| IPaC | Information for Planning and Consultation |
| MBTA | Migratory Bird Treaty Act |
| MSL | mean sea level |
| NCCP | Natural Community Conservation Plan |
| NEPA | National Environmental Policy Act |
| NMFS | National Marine Fisheries Service |
| NPPA | Native Plant Protection Act |
| NRCS | Natural Resource Conservation Service |
| NWPR | Navigable Waters Protection Rule |
| OHWM | ordinary high water mark |
| RWQCB | Regional Water Quality Control Board |
| SAA | Streambed Alteration Agreement |
| SSC | Species of Special Concern |
| SWRCB | State Water Resources Control Board |

# ACRONYMS AND ABBREVIATIONS (cont.)

| | |
|---|---|
| USACE | U.S. Army Corps of Engineers |
| USDA | U.S. Department of Agriculture |
| USFWS | U.S. Fish and Wildlife Service |
| USGS | U.S. Geological Survey |
| | |
| WOTUS | Waters of the U.S. |

# EXECUTIVE SUMMARY

HELIX Environmental Planning, Inc. (HELIX) prepared a Biological Resources Evaluation (BRE) for the Yosemite Square Project (Project) located in the City of Manteca, San Joaquin County, California. The site is situated in Section 3 of Township 2 South and Range 7 East, and is depicted on the U.S. Geological Survey (USGS) *Manteca*, CA 7.5-minute quadrangle map. The approximate center of the Project is at latitude, 37.789596 and longitude -121.182145, NAD 83.

The purpose of this BRE is to assess the general biological resources on the site, to assess the suitability of the site to support special-status species and sensitive vegetation communities or habitats (including wetlands), and to provide recommendations for any regulatory permitting or further analysis that may be required prior to development activities occurring on the site.

The 137.6-acre Project site (Study Area) is located in an agricultural area of the City of Manteca and is currently utilized as an almond orchard. Surrounding land uses include agriculture to the east and south, Highway 120 to the west, and a mobile home park to the north.

Known or potential biological constraints in the Study Area include:

- Potential nesting habitat for Swainson's hawk adjacent to the Study Area; and
- Potential nesting and foraging habitat for nesting migratory birds and raptors.

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# 1.0 INTRODUCTION

This report summarizes the findings of a Biological Resources Evaluation (BRE) completed by HELIX Environmental Planning, Inc. (HELIX) for the 137.6-acre Yosemite Square Project (Project) located in the City of Manteca, San Joaquin County, California. This document addresses the onsite physical features, plant communities present, and the common plant and wildlife species occurring or potentially occurring in the Study Area. In addition, the suitability of habitats to support special-status species and sensitive habitats (including wetlands) are analyzed, and recommendations are provided for any regulatory permitting or further analysis required prior to development activities occurring on the site.

# 2.0 DESCRIPTION OF THE PROPOSED PROJECT

## 2.1 PROJECT LOCATION

The approximately 137.6-acre Project site is located in the City of Manteca, San Joaquin County, California (Appendix A; Figure 1). The site is situated in Section 3 of Township 2 South and Range 7 East, and is depicted on the U.S. Geological Survey (USGS) *Manteca*, CA 7.5-minute quadrangle map. The approximate center of the Project is at latitude, 37.789596 and longitude -121.182145, NAD 83 (Study Area).

## 2.2 EXISTING CONDITIONS

The Study Area is currently utilized as an almond orchard. Drip irrigation as well as flood irrigation is used on the orchard, and the orchard appears to be regularly maintained. Surrounding land uses include agriculture to the east and south, Highway 120 to the west, and a mobile home park to the north.

## 2.3 PROJECT DESCRIPTION

There is no final project description to date. The Study Area is fully-entitled for a mixed-use master planned community of up to 1,101 units and 475,675 SF of business industrial park space.

# 3.0 REGULATORY FRAMEWORK

Federal, State, and local environmental laws, regulations, and policies relevant to the California Environmental Quality Act (CEQA) review process are summarized below. Applicable CEQA significance criteria are also addressed in this section.

## 3.1 FEDERAL REGULATIONS

### 3.1.1 Federal Endangered Species Act

The U.S. Fish and Wildlife Service (USFWS) enforces the provisions stipulated within the Federal Endangered Species Act of 1973 (FESA; 16 USC 1531 et seq.). Species identified as federally threatened or endangered (50 CFR 17.11, and 17.12) are protected from take, defined as direct or indirect harm, unless a Section 10 permit is granted to an entity other than a federal agency or a Biological Opinion

with incidental take provisions is rendered to a federal lead agency via a Section 7 consultation. Pursuant to the requirements of FESA, an agency reviewing a proposed project within its jurisdiction must determine whether any federally-listed species may be present in the study area and determine whether the proposed project will jeopardize the continued existence of or result in the destruction or adverse modification of critical habitat of such species (16 USC 1536 (a)[3], [4]). Other federal agencies designate species of concern (species that have the potential to become listed), which are evaluated during environmental review under the National Environmental Protection Act (NEPA) or CEQA although they are not otherwise protected under FESA.

### 3.1.2 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 established federal responsibilities for the protection of nearly all species of birds, their eggs, and nests. The Migratory Bird Treaty Reform Act of 2004 further defined species protected under the act and excluded all non-native species. Section 16 U.S.C. 703–712 of the Act states "unless and except as permitted by regulations, it shall be unlawful at any time, by any means or in any manner, to pursue, hunt, take, capture, kill, attempt to take, capture, or kill" a migratory bird. A migratory bird is any species or family of birds that live, reproduce, or migrate within or across international borders at some point during their annual life cycle. Currently, there are 836 migratory birds protected nationwide by the Migratory Bird Treaty Act, of which 58 are legal to hunt. The U.S. Court of Appeals for the 9th Circuit (with jurisdiction over California) has ruled that the MBTA does not prohibit incidental take (952 F 2d 297 – Court of Appeals, 9th Circuit 1991).

## 3.2 STATE JURISDICTION

### 3.2.1 California Endangered Species Act

The California Endangered Species Act (CESA) (California Fish and Game Code Sections 2050 to 2097) is similar to the FESA. The California Fish and Wildlife Commission is responsible for maintaining lists of threatened and endangered species under CESA. CESA prohibits the take of listed and candidate (petitioned to be listed) species. "Take" under California law means to hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch capture, or kill (California Fish and Game Code, Section 86). The California Department of Fish and Wildlife (CDFW) can authorize take of a state-listed species under Section 2081 of the California Fish and Game Code if the take is incidental to an otherwise lawful activity, the impacts are minimized and fully mitigated, funding is ensured to implement and monitor mitigation measures, and CDFW determines that issuance would not jeopardize the continued existence of the species. A CESA permit must be obtained if a project will result in the "take" of listed species, either during construction or over the life of the project. For species listed under both FESA and CESA requiring a Biological Opinion under Section 7 of the FESA, CDFW may also authorize impacts to CESA species by issuing a Consistency Determination under Section 2080.1 of the Fish and Game Code.

### 3.2.2 California Code of Regulations Title 14 and California Fish and Game Code

The official listing of endangered and threatened animals and plants is contained in the California Code of Regulations Title 14 §670.5. A state candidate species is one that the California Fish and Game Code has formally noticed as being under review by CDFW to include in the state list pursuant to Sections 2074.2 and 2075.5 of the California Fish and Game Code.

Legal protection is also provided for wildlife species in California that are identified as "fully protected animals." These species are protected under Sections 3511 (birds), 4700 (mammals), 5050 (reptiles and amphibians), and 5515 (fish) of the California Fish and Game Code. These statutes prohibit take or possession of fully protected species at any time. CDFW is unable to authorize incidental take of fully protected species unless any such take authorization is issued in conjunction with the approval of a Natural Community Conservation Plan that covers the fully protected species (California Fish and Game Code Section 2835).

### 3.2.3 California Environmental Quality Act

Under the California Environmental Quality Act of 1970 (Public Resources Code Section 21000 et seq.), lead agencies analyze whether projects would have a substantial adverse effect on a candidate, sensitive, or special-status species (Public Resources Code Section 21001(c)). These "special-status" species generally include those listed under FESA and CESA, and species that are not currently protected by statute or regulation, but would be considered rare, threatened, or endangered under the criteria included CEQA Guidelines Section 15380. Therefore, species that are considered rare are addressed under CEQA regardless of whether they are afforded protection through any other statute or regulation. The California Native Plant Society (CNPS) inventories the native flora of California and ranks species according to rarity; plants ranked as 1A, 1B, 2A, 2B, and 3 are generally considered special-status species under CEQA.[1]

Although threatened and endangered species are protected by specific federal and state statutes, CEQA Guidelines Section 15380(d) provides that a species not listed on the federal or state list of protected species may be considered rare if it can be shown to meet certain specified criteria. These criteria have been modeled after the definition in FESA and the section of the California Fish and Game Code dealing with rare or endangered plants and animals. Section 15380(d) allows a public agency to undertake a review to determine if a significant effect on species that have not yet been listed by either the USFWS or CDFW (i.e., candidate species) would occur.

### 3.2.4 Native Plant Protection Act

The California Native Plant Protection Act of 1977 (California Fish and Game Code Sections 1900-1913) empowers the Fish and Game Commission to list native plant species, subspecies, or varieties as endangered or rare following a public hearing. To the extent that the location of such plants is known, CDFW must notify property owners that a listed plant is known to occur on their property. Where a property owner has been so notified by CDFW, the owner must notify CDFW at least 10 days in advance of any change in land use (other than changing from one agricultural use to another), in order that CDFW may salvage listed plants that would otherwise be destroyed. Currently, 64 taxa of native plants have been listed as rare under the act.

### 3.2.5 Nesting Birds

California Fish and Game Code Subsections 3503 and 3800 prohibit the possession, take, or needless destruction of birds, their nests, and eggs, and the salvage of dead nongame birds. California Fish and Game Code Subsection 3503.5 protects all birds in the orders of Falconiformes and Strigiformes (birds of prey). Fish and Game Code Subsection 3513 states that it is unlawful to take or possess

[1] The California Rare Plant Rank system can be found online at < http://www.cnps.org/cnps/rareplants/ranking.php>

any migratory nongame bird as designated in the Migratory Bird Treaty Act or any part of such migratory nongame bird except as provided by rules and regulations adopted by the Secretary of the Interior under provisions of the Migratory Bird Treaty Act. The Attorney General of California has released an opinion that the Fish and Game Code prohibits incidental take.

## 3.3 JURISDICTIONAL WATERS

### 3.3.1 Federal Jurisdiction

Any person, firm, or agency planning to alter or work in "waters of the U.S.," including the discharge of dredged or fill material, must first obtain authorization from the U.S. Army Corps of Engineers (USACE) under Section 404 of the Clean Water Act (CWA; 33 USC 1344). Permits, licenses, variances, or similar authorization may also be required by other federal, state, and local statutes. Section 10 of the Rivers and Harbors Act prohibits the obstruction or alteration of navigable waters of the U.S. without a permit from USACE (33 USC 403).

On April 21, 2020, the Environmental Protection Agency (EPA) and USACE published the Navigable Waters Protection Rule to define "Waters of the United States" in the Federal Register. On June 22, 2020, the Navigable Waters Protection Rule: Definition of "Waters of the United States" (NWPR) became effective in 49 states, including California, and in all US territories.

The NWPR regulates traditional navigable waters and perennial or intermittent tributary systems, and defines four categories of regulated waters including:

- The territorial seas and traditional navigable waters;
- Perennial and intermittent tributaries to those waters;
- Certain lakes, ponds, and impoundments; and
- Wetlands adjacent to jurisdictional waters.

The NWPR also defines 12 categories of exempted aquatic resources:

- Waters not listed as WOTUS
- Groundwater
- Ephemeral features
- Diffuse stormwater run-off
- Ditches not identified as WOTUS
- Prior converted cropland (PCC)
- Artificially irrigated areas
- Artificial lakes and ponds
- Water-filled depressions incidental to mining or construction activity
- Stormwater control features
- Groundwater recharge, water reuse, and wastewater recycling structures
- Waste treatment systems

With non-tidal waters, in the absence of adjacent wetlands, the extent of USACE jurisdiction extends to the ordinary high water mark (OHWM) – the line on the shore established by fluctuations of water and

indicated by a clear, natural line impressed on the bank, shelving, changes in soil character, destruction of terrestrial vegetation, or the presence of litter and debris. Wetlands are defined in 33 CFR Part 328 as:

> *"those areas that are inundated or saturated by surface or ground water at a frequency and duration to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions."*

Federal and state regulations pertaining to waters of the U.S., including wetlands, are discussed below.

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

Section 401 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 and may require State Water Quality Certification before other permits are issued.

Section 402 establishes a permitting system for the discharge of any pollutant (except dredged or fill material) into waters of the U.S.

Section 404 establishes a permit program administered by USACE that regulates the discharge of dredged or fill material into waters of the U.S. (including wetlands). Implementing regulations by USACE are found at 33 CFR Parts 320-332. The Section 404 (b)(1) Guidelines were developed by the USEPA in conjunction with USACE (40 CFR Part 230), allowing the discharge of dredged or fill material for non-water dependent uses into special aquatic sites only if there is no practicable alternative that would have less adverse impacts.

### Regional Water Quality Control Board

Any action requiring a CWA Section 404 permit, or a Rivers and Harbors Act Section 10 permit, must also obtain a CWA Section 401 Water Quality Certification. The State of California Water Quality Certification (WQC) Program was formally initiated by the State Water Resources Control Board (SWRCB) in 1990 under the requirements stipulated by Section 401 of the Federal CWA. Although the Clean Water Act is a Federal law, Section 401 of the CWA recognizes that states have the primary authority and responsibility for setting water quality standards. In California, under Section 401, the State and Regional Water Boards are the authorities that certify that issuance of a federal license or permit does not violate California's water quality standards (i.e., that they do not violate Porter-Cologne and the Water Code). The WQC Program currently issues the WQC for discharges requiring USACE's permits for fill and dredge discharges within Waters of the United States, and now also implements the State's wetland protection and hydromodification regulation program under the Porter Cologne Water Quality Control Act.

On April 2, 2019, the SWRCB adopted a State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to Waters of the State (Procedures), for inclusion in the forthcoming Water Quality Control Plan for Inland Surface Waters and Enclosed Bays and Estuaries and Ocean Waters of California. The Procedures consist of four major elements: 1) a wetland definition; 2) a framework for determining if a feature that meets the wetland definition is a water of the state; 3) wetland delineation procedures; and 4) procedures for the submittal, review, and approval of applications for Water Quality Certifications and Waste Discharge Requirements for dredge or fill activities. The Office of

Administrative Law approved the Procedures on August 28, 2019, and the Procedures became effective May 28, 2020.

Under the Procedures and the State Water Code (Water Code §13050(e)), "Waters of the State" are defined as "any surface water or groundwater, including saline waters, within the boundaries of the state." Unless excluded by the Procedures, any activity that could result in discharge of dredged or fill material to Waters of the State, which includes Waters of the U.S. and non-federal Waters of the State, requires filing of an application under the Procedures.

The Porter-Cologne Water Quality Control Act (Porter-Cologne Act, Water Code Section 13000 et seq.) is California's statutory authority for the protection of water quality in conjunction with the federal CWA. The Porter-Cologne Act requires the SWRCB and RWQCBs under the CWA to adopt and periodically update water quality control plans, or basin plans. Basin plans are plans in which beneficial uses, water quality objectives, and implementation programs are established for each of the nine regions in California. The Porter-Cologne Act also requires dischargers of pollutants or dredged or fill material to notify the RWQCBs of such activities by filing Reports of Waste Discharge and authorizes the SWRCB and RWQCBs to issue and enforce waste discharge requirements, National Pollution Discharge Elimination System (NPDES) permits, Section 401 water quality certifications, or other approvals.

### 3.3.2 California Department of Fish and Wildlife

The CDFW is a trustee agency that has jurisdiction under Section 1600 et seq. of the California Fish and Game Code. Under Sections 1602 and 1603, a private party must notify CDFW if a proposed project will "substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of streambeds…except when the department has been notified pursuant to Section 1601." Additionally, CDFW asserts jurisdiction over native riparian habitat adjacent to aquatic features, including native trees over four inches in diameter at breast height (DBH). If an existing fish or wildlife resource may be substantially adversely affected by the activity, CDFW may propose reasonable measures that will allow protection of those resources. If these measures are agreeable to the parties involved, they may enter into an agreement with CDFW identifying the approved activities and associated mitigation measures. Generally, CDFW recommends submitting an application for a Streambed Alteration Agreement (SAA) for any work done within the lateral limit of water flow or the edge of riparian vegetation, whichever is greater.

## 3.4 CEQA SIGNIFICANCE

Section 15064.7 of the State CEQA Guidelines encourages local agencies to develop and publish the thresholds that the agency uses in determining the significance of environmental effects caused by projects under its review. However, agencies may also rely upon the guidance provided by the expanded Initial Study Checklist included in Appendix G of the State CEQA Guidelines. Appendix G provides examples of impacts that would normally be considered significant. Based on these examples, impacts to biological resources would normally be considered significant if the project would:

- Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special-status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS;

- Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the CDFW or USFWS;

- Have a substantial adverse effect on State or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means;

- 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;

- Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance; and

- Conflict with the provisions of an adopted Habitat Conservation Plan (HCP), Natural Community Conservation Plan (NCCP), or other approved local, regional, or state habitat conservation plan.

An evaluation of whether or not an impact on biological resources would be substantial must consider both the resource itself and how that resource fits into a regional or local context. Substantial impacts would be those that would diminish or result in the loss of an important biological resource, or those that would obviously conflict with local, State, or federal resource conservation plans, goals, or regulations. Impacts are sometimes locally important but not significant according to CEQA. The reason for this is that although the impacts would result in an adverse alteration of existing conditions, they would not substantially diminish, or result in the permanent loss of, an important resource on a population-wide or region-wide basis.

### 3.4.1 California Native Plant Society

The CNPS maintains a rank of plant species native to California that have low population numbers, limited distribution, or are otherwise threatened with extinction. This information is published in the *Inventory of Rare and Endangered Vascular Plants of California*. Potential impacts to populations of CNPS-ranked plants receive consideration under CEQA review. The following identifies the definitions of the CNPS Rare Plant Ranking System:

Rank 1A: Plants presumed Extinct in California and either rare or extinct elsewhere

Rank 1B: Plants Rare, Threatened, or Endangered in California and elsewhere

Rank 2A: Plants presumed extirpated in California but common elsewhere

Rank 2B: Plants Rare, Threatened, or Endangered in California, but more common elsewhere

Rank 3: Plants about which we need more information – A Review List

Rank 4: Plants of limited distribution – A Watch List

All plants appearing on CNPS Rank 1 or 2 are considered to meet CEQA Guidelines Section 15380 criteria. While only some of the plants ranked 3 and 4 meet the definitions of threatened or endangered species, the CNPS recommends that all Rank 3 and Rank 4 plants be evaluated for consideration under

CEQA. Furthermore, the CNPS Rare Plant Rankings include levels of threat for each species. These threat ranks include the following:

0.1 - Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat);

0.2 - Moderately threatened in California (20-80% occurrences threatened/moderate degree and immediacy of threat); and

0.3 - Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known).

Threat ranks do not designate a change of environmental protections, so that each species (i.e., CRPR 1B.1, CRPR 1B.2, CRPR 1B.3, etc.) be fully considered during preparation of environmental documents under CEQA.

### 3.4.2 California Department of Fish and Wildlife Species of Concern

Additional fish, amphibian, reptile, bird, and mammal species may receive consideration by CDFW and lead agencies during the CEQA process, in addition to species that are formally listed under FESA and CESA or listed as fully protected. These species are included on the *Special Animals List*, which is maintained by CDFW. This list tracks species in California whose numbers, reproductive success, or habitat may be in decline. In addition to "Species of Special Concern" (SSC), the *Special Animals List* includes species that are tracked in the California Natural Diversity Database (CNDDB) but warrant no legal protection. These species are identified as "California Special Animals" (CSA).

## 3.5 LOCAL POLICIES AND REGULATIONS

### 3.5.1 San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

The San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP or Plan), in accordance with ESA Section 10(a)(1)(B) and CESA Section 2081(b) Incidental Take Permits, provides compensation for the Conversion of Open Space to non-Open Space uses which affect the plant, fish and wildlife species covered by the Plan (SJCOG 2021).

The key purpose of the SJMSCP is to:

- Provide a strategy for balancing the need to conserve Open Space and the need to Convert Open Space to non-Open Space uses while protecting the region's agricultural economy.
- Preserve landowner property rights.
- Provide for the long-term management of plant, fish, and wildlife species, especially those that are currently listed, or may be listed in the future, under the Federal Endangered Species Act (ESA) or the CESA.

- Provide and maintain multiple-use Open Space which contribute to the quality of life of the residents of San Joaquin County.

- Accommodate a growing population while minimizing costs to project proponents and society at large.

The SJMSCP compensates for Conversions of Open Space for the following activities: urban development, mining, expansion of existing urban boundaries, non -agricultural activities occurring outside of urban boundaries, levee maintenance undertaken by the San Joaquin Area Flood Control Agency, transportation projects, school expansions, non-federal flood control projects, new parks and trails, maintenance of existing facilities for non-federal irrigation district projects, utility installation, maintenance activities, managing Preserves, and similar public agency projects.

Most cities within San Joaquin County administer the Plan themselves while others leave all arrangements in the hands of the SJCOG and its staff. All information and forms needed to initiate the coverage process under the Plan can be found in the Habitat section of the document library or provided by SJCOG staff (direct link: https://www.sjcog.org/DocumentCenter/Index/15 [SJCOG 2021]).

### 3.5.2 City of Manteca General Plan

The *City of Manteca General Plan* (General Plan) includes goals, objectives, and policies regarding biological resources within the City limits (City of Manteca 2016). Applicable biological measures are included below:

#### Biological Resources

**Goal RC-10.** Protect sensitive native vegetation and wildlife communities and habitat in Manteca.

**Policies: Biological Resources**

RC-P-31. Minimize impact of new development on native vegetation and wildlife.

RC-P-32. Condition new development in the vicinity of the San Joaquin River and Walthall Slough to protect riparian habitat, wetlands, and other native vegetation and wildlife communities and habitats.

RC-P-33. Discourage the premature removal of orchard trees in advance of development and discourage the removal of other existing healthy mature trees, both native and introduced.

RC-P-34. Protect special status species and other species that are sensitive to human activities.

RC-P-35. Allow contiguous habitat areas.

RC-P-36. Consider the development of new drainage channels planted with native vegetation, which would provide habitat as well as drainage.

**Implementation: Biological Resources**

RC-I-32. Continue to support and comply with the requirements of the SJMSCP when reviewing proposed public and private land use changes. RC-I-33. Project proponents who opt not to participate in the SJMSCP shall:

- Satisfy applicable U.S. ESA, CESA, NEPA, CEQA, and other applicable local, state, and federal laws and regulation provisions through consultations with the Permitting Agencies and local planning agencies.

- Provide site-specific research and ground surveys for proposed development projects. This research must include a detailed inventory of all biological resources onsite, and appropriate mitigation measures for avoiding or reducing impact to these biological resources. This requirement may be waived if determined by the City that the proposed project area is already sufficiently surveyed.

RC-I-34. Until such time that a Clean Water Act regional general permit or its equivalent is issued for coverage under the SJMSCP, acquisition of a Section 404 permit by project proponents will continue to occur as required by existing regulations. Project proponents shall comply with all requirements for protecting federally protected wetlands.

RC-I-35. Continue to enforce the City's heritage tree ordinance which defines and identifies mature trees to be protected and establishes regulations for their protection and removal.

RC-I-36. Limit the access of pedestrians and bicyclists to wetland areas so that access is compatible with long-term protection of these natural resources.

RC-I-37. The City shall implement multiple use of resource areas, where feasible, that includes passive recreational and educational opportunities with the protection of wildlife and vegetation habitat areas.

# 4.0 METHODOLOGY

Biological studies conducted for the Study Area consisted of a special-status species evaluation that included a desktop review and database searches to identify known biological resources in the Study Area and vicinity, as well as a biological and wetland reconnaissance field survey.

## 4.1 SPECIAL-STATUS SPECIES EVALUATION

For the purposes of this report, special-status species are those that fall into one or more of the following categories, including those:

- Listed as endangered or threatened under the FESA (including candidates and species proposed for listing);

- Listed as endangered or threatened under the CESA (including candidates and species proposed for listing);

- Designated as rare, protected, or fully protected pursuant to California Fish and Game Code;
- Designated a SSC by the CDFW;
- Considered by CDFW to be a Watch List species with potential to become an SSC;
- Defined as rare or endangered under Section 15380 of the California Environmental Quality Act (CEQA); or
- Having a California Rare Plant Rank (CRPR) of 1A, 1B, 2A, 2B, or 3.

In order to evaluate special-status species and/or their habitats with the potential to occur in the Study Area and/or be impacted by the proposed project, HELIX obtained lists of regionally occurring special-status species from the following information sources:

- California Department of Fish and Wildlife (CDFW). 2021. *California Natural Diversity Database* (CNDDB); For: *Manteca, Avena, Salida, Ripon, Vernalis, Lathrop, Stockton E, Stockton W,* and *Peters* USGS 7.5-minute series quadrangles, Sacramento, CA. Accessed [March 30, 2021];
- California Native Plant Society (CNPS). 2021. *Inventory of Rare and Endangered Plants* (online edition, v8-03 0.39) For: *Manteca, Avena, Salida, Ripon, Vernalis, Lathrop, Stockton E, Stockton W, and Peters* USGS 7.5-minute series quadrangles, Sacramento, CA. Accessed [March 30, 2021]; and
- U.S. Fish and Wildlife Service (USFWS). 2021. *Information for Planning and Consultation* (IPaC) *IPQ44.* Accessed [March 30, 2021].

Appendix B includes these lists of special-status plant and animal species occurring in the project region and Appendix C includes an evaluation of the potential for these species to occur in the Study Area.

HELIX also reviewed the following sources for published information on site conditions pertinent to biological resources:

- USGS. 2021. *Manteca, California*. 7.5-minute series topographic quadrangle. United States Department of Interior; and
- USDA, NRCS. 2021. *Web Soil Survey*. Available online at: http://websoilsurvey.sc.egov.usda.gov. Accessed [March 30, 2021].

## 4.2 BIOLOGICAL SURVEY

The biological and wetland reconnaissance survey was conducted on April 1, 2021 by HELIX biologists Patrick Martin and Christine Heckler. The weather during the field survey was clear and warm with an average temperature of 66 degrees Fahrenheit. The Study Area was systematically surveyed on foot to ensure total search coverage, with special attention given to portions of the Study Area with the potential to support special-status species and sensitive habitats. Binoculars were used to further extend site coverage and identify species observed. All plant and animal species observed onsite during the surveys were recorded (Appendix D), and all biological communities occurring onsite were characterized. All resources of interest were mapped with Global Positioning System (GPS)-capable

tablets equipped with GPS receivers running ESRI Collector for ArcGIS version 10.6.1 software. Following the field survey, the potential for each species identified in the database query to occur within the Study Area was determined based on the site survey, soils, habitats present within the Study Area, and species-specific information, as shown in Appendix C.

# 5.0 RESULTS

## 5.1 PHYSICAL FEATURES

### 5.1.1 Topography and Drainage

The topography of the Study Area is flat with an average elevation of approximately 46 feet above mean sea level (MSL). The Study Area is located in the Town of French Camp-San Joaquin River watershed, Hydrologic Unit Code (HUC) 180400030205. The site is currently an active orchard that receives water from flood and drip irrigation. There is no apparent natural source of water occurring onsite other than direct precipitation.

### 5.1.2 Soils

The Natural Resources Conservation Service has mapped three soil units within the Study Area: Delhi loamy sand, 0 to 2 percent slopes; Delhi-Urban land complex, 0 to 2 percent slopes; and Tinnin loamy coarse sand, 0 to 2 percent slopes (USDA, NRCS 2021).

**Delhi loamy sand, 0 to 2 percent slopes:** this soil unit is comprised of alluvium derived from granite. A typical soil profile is 0 to 26 inches: loamy sand; and 26 to 60 inches: sand. There is no frequency of flooding or ponding. This soil unit is not considered hydric.

**Delhi-Urban land complex, 0 to 2 percent slopes:** this soil unit is comprised of wind-modified alluvium derived from granitic rock sources. A typical soil profile is 0 to 26 inches: loamy sand; and 26 to 60 inches: sand. There is no frequency of flooding or ponding. This soil unit is not considered hydric.

**Tinnin loamy coarse sand, 0 to 2 percent slopes:** this soil unit is comprised of alluvium derived from granitic rock sources. A typical soil profile is 0 to 75 inches: loamy coarse sand. There is no frequency of flooding or ponding. This soil unit is not considered hydric.

## 5.2 VEGETATION COMMUNITIES

The entire Study Area is comprised of orchard (Appendix A; Figure 5). This habitat type is discussed below. A comprehensive list of all plant and wildlife species observed within the Study Area is provided in Appendix D. Representative site photographs are included in Appendix E.

### 5.2.1 Orchard

Almond orchards comprise the entire Study Area (137.6 acres). Trees in the northern portion of the Study Area appear younger than the rest of the orchard but all trees are mature and well developed. The orchards appear to receive water from both drip and flood irrigation. The understory of the orchard is sparse, with some small herbaceous species occurring in rows of the orchard. Plant species observed

in the understory include chickweed (*Stellaria media*), long-beak filaree (*Erodium botrys*), annual blue grass (*Poa annua*), white clover (*Trifolium repens*), and cheeseweed (*Malva parviflora*). Several small dirt access roads occur throughout the orchard as well as irrigation outfalls.

## 5.3 SPECIAL-STATUS SPECIES

A total of 20 regionally occurring special-status plant species and 34 regionally occurring special-status wildlife species were identified during the database queries and desktop review to occur in the region surrounding the Study Area and are evaluated in Appendix C.

### 5.3.1 Listed and Special-Status Plants

Based on field observations, literature review, and published information, no listed and/or special-status plants have the potential to occur in the Study Area. Plants identified in the database query occur on alkaline soils, in vernal pools, and in habitat types that do not occur in the Study Area. The Study Area is comprised of sandy and loamy-sand soils with no natural water resources. In addition, it appears to be routinely disturbed and/or altered to maintain the almond orchards. There is no suitable habitat for special-status plants within the Study Area.

### 5.3.2 Listed and Special-Status Wildlife

Based on field observations, literature review, and published information, one special status wildlife species has potential to occur in the vicinity of the Study Area: Swainson's hawk (*Buteo swainsoni*). In addition, other migratory birds and raptors protected under federal, State, and local laws/policies also have potential to occur within the Study Area. Species that were determined to have no potential to occur in the Study Area or that were determined to be unimpacted by the proposed project are included in Appendix C.

#### 5.3.2.1 Swainson's Hawk

The Swainson's hawk is listed as a State threatened species. This species is a long-distance migrant with nesting grounds in western North America, and wintering grounds in Mexico and South America. Swainson's hawks typically arrive in the California Central Valley between March and early April to establish breeding territories. Breeding occurs from late March to August, peaking in late May through July (Zeiner et al. 1988-1990). In the Central Valley, Swainson's hawks generally nest in isolated trees, small groves of trees in agricultural land, or in large woodlands next to open grasslands or agricultural fields. This species typically nests near riparian areas; however, it has been known to nest in urban areas as well. In the Central Valley the most commonly used trees include Fremont cottonwood (*Populus fremontii*), willows (*Salix* sp.), sycamores (*Platanus* sp.), valley oaks (*Quercus lobata*), walnut (*Juglans* sp.), and occasionally gum trees (*Eucalyptus* sp.) (Woodbridge 1998). Nest locations are usually in close proximity to suitable foraging habitats, which include fallow fields, all types of grasslands, irrigated pastures, alfalfa and other hay crops, and low-growing row crops, especially post-harvest when the height of the vegetation is short and easy to observe prey (Bechard et al. 2010 and SAIC 2012). Swainson's hawks leave their breeding grounds to return to their wintering grounds in late August or early September (Bloom and Van De Water 1994).

This species was observed soaring over the Study Area during the field survey on April 1, 2021. There are 14 CNDDB records of this species within five miles of the Study Area, and the closest CNDDB record is approximately 1.36 miles from the Study Area (CDFW 2021).

Swainson's hawks are not known to nest within orchards and trees within the Study Area are too short and too closely spaced to provide suitable nesting habitat. Suitable foraging habitat also does not occur in the Study Area. However, many trees suitable for nesting are present adjacent to the Study Area and in the surrounding vicinity. While this species is not expected to nest directly in the Study Area, it may nest within the vicinity of the Study Area and potentially be impacted by the proposed project if nesting is occurring in adjacent habitat.

Project activities such as clearing, grading, and other ground disturbing activities during the nesting season (March 15 through September 15) could result in injury or mortality of eggs and chicks directly through destruction or indirectly through forced nest abandonment due to noise and other disturbance. Needless destruction of nests, eggs, and chicks would be a violation of the CESA and Fish and Game Code and a significant impact.

#### 5.3.2.2 Nesting Migratory Birds and Raptors

The Study Area and immediate vicinity provides nesting and foraging habitat for a variety of nesting migratory birds and raptors. Many birds were observed within the orchard during the field survey including American robin (*Turdus migratorius*), lesser goldfinch (*Spinus psaltria*), Cooper's hawk (*Accipiter cooperii*), Anna's hummingbird (*Calypte anna*), and lark sparrow (*Chondestes grammacus*). No active nests were observed during the field survey; however, birds have the potential to nest in and adjacent to the Study Area, in trees, shrubs, and on the ground.

Project activities such as clearing, grading, and other ground disturbing activities during the avian nesting season (February 1 through August 31) could result in injury or mortality of eggs and chicks directly through destruction or indirectly through forced nest abandonment due to noise and other disturbance. Needless destruction of nests, eggs, and chicks would be a violation of the Fish and Game Code and a significant impact.

## 5.4 SENSITIVE HABITATS

Sensitive habitats include those that are of special concern to resource agencies or those that are protected under CEQA, Section 1600 of the California Fish and Game Code (i.e., riparian areas) and/or Sections 401 and 404 of the Clean Water Act, which include wetlands and other waters of the U.S. and State.

No sensitive habitats were identified in the Study Area.

### 5.4.1 Wildlife Migration Corridors

Wildlife corridors link areas of suitable wildlife habitat that are otherwise separated by rugged terrain, changes in vegetation, or human disturbance. This fragmentation of habitat can also occur when a portion of one or more habitats is converted into another habitat; for instance, when woodland or scrub habitat is altered or converted into grasslands after a disturbance such as fire, mudslide, or construction activities. Wildlife corridors mitigate the effects of this fragmentation by: (1) allowing animals to move between remaining habitats thereby permitting depleted populations to be replenished and promoting

genetic exchange; (2) providing escape routes from fire, predators, and human disturbances, thus reducing the risk of catastrophic events (such as fire or disease) on population or local species extinction; and (3) serving as travel routes for individual animals as they move within their home ranges in search of food, water, mates, and other needs.

There are no wildlife migration corridors within the Study Area. The Study Area is surrounded by developed areas and Highway 120. Therefore, development of the Study Area would not affect any wildlife migration corridors.

# 6.0 CONCLUSIONS AND RECOMMENDATIONS

The entire Study Area is comprised of orchard (137.6 acres). No sensitive habitats were observed onsite and there is no suitable habitat to support special-status plant species identified in the database query. One special-status wildlife species, Swainson's hawk, has potential to occur in the Study Area. Although trees within the Study Area do not provide suitable nesting habitat for this species, Swainson's hawk may nest in trees adjacent to the Study Area and in the surrounding vicinity and could be affected by development of the Study Area. In addition, a number of other migratory birds and raptors may nest within or adjacent to the Study Area.

Known or potential biological constraints in the Study Area include:

- Potential nesting habitat for Swainson's hawk adjacent to the Study Area; and
- Potential nesting and foraging habitat for nesting migratory birds and raptors.

Recommendations, including avoidance and minimization measures to limit or avoid impacts to special-status species that may occur are included below.

## 6.1 SWAINSON'S HAWK

Swainson's hawk has a high potential to occur in the vicinity of the Study Area due to the presence of suitable nesting habitat and known occurrences within 5 miles of the Study Area. In addition, a Swainson's hawk pair was observed soaring over the Study Area during the field survey on April 1, 2021. Although suitable nesting and foraging habitat does not occur in the Study Area, this species may nest adjacent to the Study Area or surrounding vicinity. If the project activities take place during the nesting season (February 1 to August 31), nesting Swainson's hawks may be impacted. The following measures are recommended to avoid or minimize potential impacts to Swainson's hawk. If project activities take place outside of the nesting season, no mitigation measures for Swainson's hawk are required.

The SJMSCP includes measures to avoid or minimize impacts to Swainson's hawk (SJMSCP 2000). Assuming the project proponent applies for coverage under the SJMSCP, these measures will be required. Specific measures include mitigation for removal of nest trees; however, because no suitable nest trees occur in the Study Area these measures are not discussed in this report. Applicable measures for Swainson's hawk include:

- If a nest tree becomes occupied during construction activities, then all construction activities shall remain a distance of two times the dripline of the tree, measured from the nest.

- Pursuant to the Migratory Bird Treaty Act (16 USC 703-711), it is unlawful at any time, by any means or in any manner to pursue, hunt, take, capture, kill, attempt to take, capture, or kill any migratory bird, any part, nest, or eggs of any such bird is defined as Take. All SJMSCP Covered Bird Species are subject to the Migratory Bird Treaty Act. Because the SJMSCP is based on the more stringent, federal standard for "Take" pursuant to the ESA which includes modification of habitat, Incidental Take Permits for SJMSCP Covered Bird Species are included in the SJMSCP, to allow for the Conversion of habitat for SJMSCP Covered Bird Species with appropriate creation of compensatory habitat for these species. To fulfill the requirements of the Migratory Bird Treaty Act, however, the Incidental Take Minimization Measures of the SJMSCP for all SJMSCP Covered Bird Species must result in no Take, as Take is defined by the MBTA, of SJMSCP Covered Bird Species.

In addition to these measures, the following general measures are recommended to avoid or minimize impacts to Swainson's hawk:

- Pre-construction surveys should be conducted to determine if active Swainson's hawk nests are present on or adjacent to the project site during the nesting season. An approved biologist should conduct two pre-construction surveys, one within 30 days of ground-disturbing activities, and one within three days of ground-disturbing activities, in order to determine presence of nesting Swainson's hawk.

- If active nests are found on or adjacent to the project footprint or any project-related activities, then a non-disturbance buffer around the active nest should be established, until the young have fledged. Buffers should remain a distance of two times the dripline of the tree.

- If nesting Swainson's hawks are present on adjacent to the project footprint, then an approved biologist experienced with Swainson's hawk behavior should monitor the nest throughout the nesting season and determine when the young have fledged. The approved biologist should be on-site daily while construction-related activities are taking place within the buffer zone.

- A qualified biologist should conduct an environmental awareness training for all construction personnel prior to the initiation of work. The training should include identification of Swainson's hawk, required practices to be implemented prior to and during construction, general measures that are being implemented to conserve the species as they relate to the project, penalties for non-compliance, boundaries of the non-disturbance buffer zones, and what to do/whom to contact should a Swainson's hawk be observed onsite during construction. Upon completion of the training, all construction personnel should sign a form stating that they have attended the training and understand all the measures. Proof of this instruction should be kept on file with the project proponent.

### 6.1.1 Nesting Migratory Birds and Raptors

The following measures are recommended to avoid or minimize impacts to nesting birds. If project activities commence during the avian breeding season (February 1 through August 31), a qualified biologist should conduct a pre-construction nesting bird survey no more than 7 days prior to initiation of project activities. The survey area should include suitable raptor nesting habitat within 500 feet of the project boundary (inaccessible areas outside of the Study Area can be surveyed from the site or from public roads using binoculars or spotting scopes). Pre-construction surveys are not required in areas

where project activities have been continuous since prior to February 1, as determined by a qualified biologist. Areas that have been inactive for more than 14 days during the avian breeding season must be re-surveyed prior to resumption of project activities. If no active nests are identified, no further mitigation is required. If active nests are identified, the following measure should be implemented:

- A species-specific buffer should be established by a qualified biologist around active nests and no construction activities within the buffer should be allowed until a qualified biologist has determined that the nest is no longer active (i.e., the nestlings have fledged and are no longer reliant on the nest, or the nest has failed). Encroachment into the buffer may occur at the discretion of a qualified biologist. Any encroachment into the buffer should be monitored by a qualified biologist to determine whether nesting birds are being impacted.

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# Appendix A

## Figures

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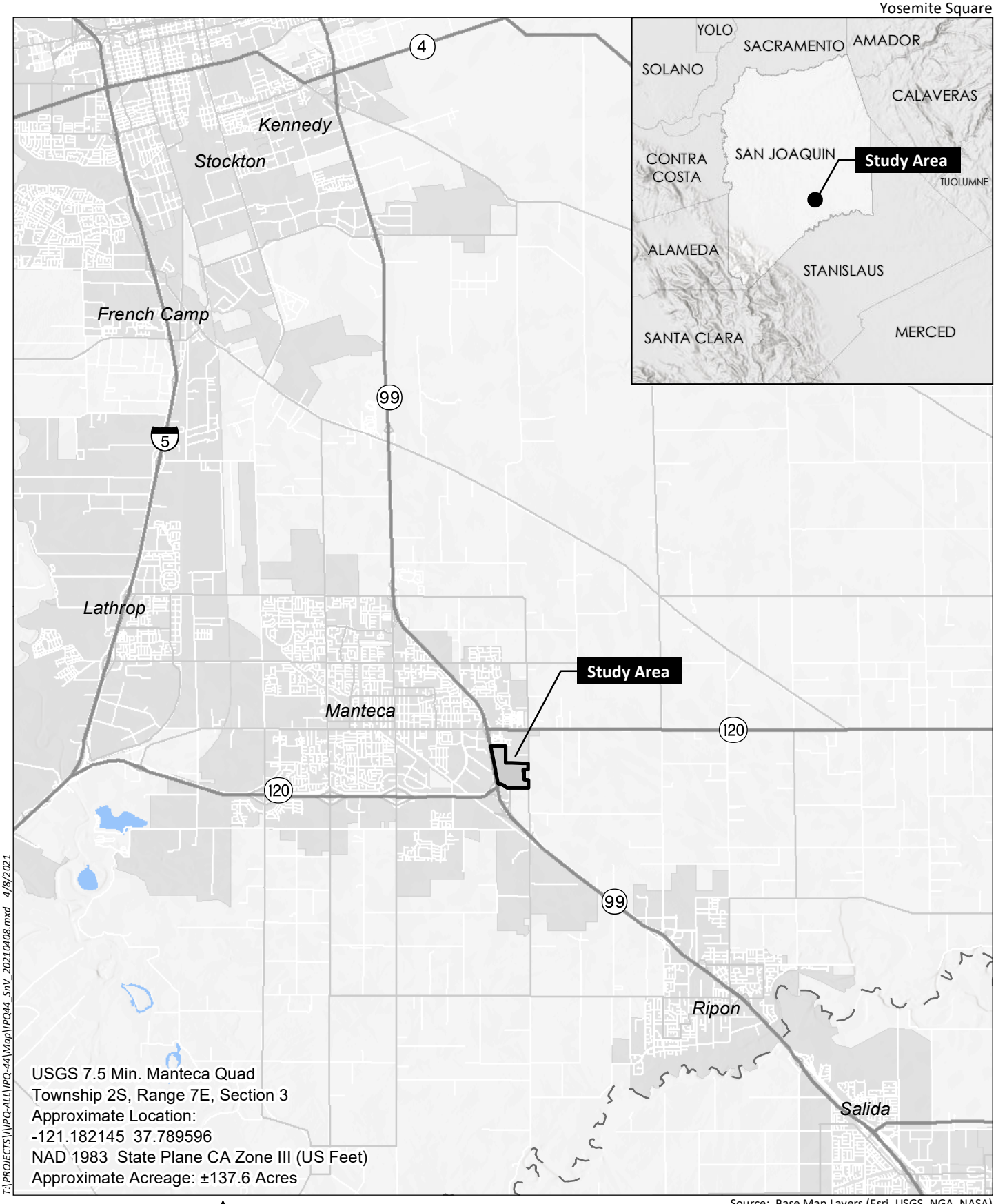
Yosemite Square




USGS 7.5 Min. Manteca Quad
Township 2S, Range 7E, Section 3
Approximate Location:
-121.182145 37.789596
NAD 1983 State Plane CA Zone III (US Feet)
Approximate Acreage: ±137.6 Acres

T:\PROJECTS\\PQ-ALL\PQ-44\Map\PQ44_SnV_20210408.mxd 4/8/2021

0 2 Miles

Source: Base Map Layers (Esri, USGS, NGA, NASA)

HELIX Environmental Planning

# Vicinity Map

Figure 1

T:\PROJECTS\V\PQ-ALL\PQ-44\Map\PQ44_aerial_20210408.mxd 4/8/2021

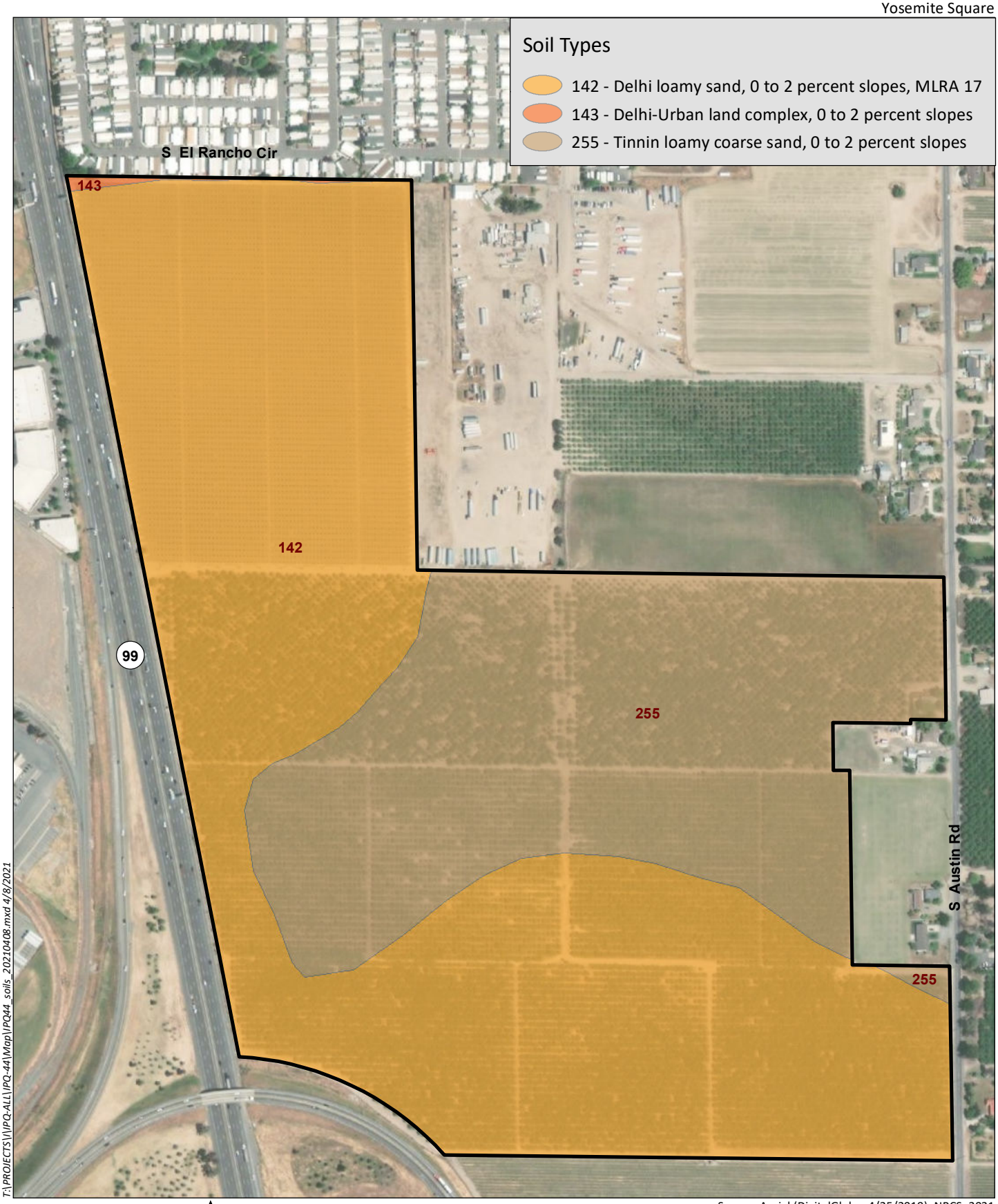
0 450 Feet

Source: Aerial (DigitalGlobe, 4/25/2019)

HELIX Environmental Planning

# Aerial Map

Figure 2




T:\PROJECTS\V\PQ-ALL\PQ-44\Map\PQ44_soils_20210408.mxd 4/8/2021

0 450 Feet

Source: Aerial (DigitalGlobe, 4/25/2019); NRCS, 2021

HELIX Environmental Planning

# Soils Map

Figure 3

Yosemite Square

T:\PROJECTS\V\IPQ-ALL\IPQ-44\Map\IPQ44_biocoms_20210408.mxd 4/8/2021

0 450 Feet

Source: Aerial (DigitalGlobe, 4/25/2019)

HELIX Environmental Planning

# Biological Communities Map

Figure 4

# Appendix B

## CNDDB, CNPS, and USFWS Lists of Regionally Occurring Special-Status Species

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# Selected Elements by Element Code

## California Department of Fish and Wildlife

## California Natural Diversity Database

**Query Criteria:** Quad IS (Manteca (3712172) OR Avena (3712171) OR Salida (3712161) OR Ripon (3712162) OR Vernalis (3712163) OR Lathrop (3712173) OR Stockton East (3712182) OR Stockton West (3712183) OR Peters (3712181))

| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| AAAAA01180 | ***Ambystoma californiense***<br>California tiger salamander | Threatened | Threatened | G2G3 | S2S3 | WL |
| AAABF02020 | ***Spea hammondii***<br>western spadefoot | None | None | G2G3 | S3 | SSC |
| ABNJB05035 | ***Branta hutchinsii leucopareia***<br>cackling (=Aleutian Canada) goose | Delisted | None | G5T3 | S3 | WL |
| ABNKC06010 | ***Elanus leucurus***<br>white-tailed kite | None | None | G5 | S3S4 | FP |
| ABNKC19070 | ***Buteo swainsoni***<br>Swainson's hawk | None | Threatened | G5 | S3 | |
| ABNKD06030 | ***Falco columbarius***<br>merlin | None | None | G5 | S3S4 | WL |
| ABNRB02022 | ***Coccyzus americanus occidentalis***<br>western yellow-billed cuckoo | Threatened | Endangered | G5T2T3 | S1 | |
| ABNSB10010 | ***Athene cunicularia***<br>burrowing owl | None | None | G4 | S3 | SSC |
| ABPAT02011 | ***Eremophila alpestris actia***<br>California horned lark | None | None | G5T4Q | S4 | WL |
| ABPBR01030 | ***Lanius ludovicianus***<br>loggerhead shrike | None | None | G4 | S4 | SSC |
| ABPBW01114 | ***Vireo bellii pusillus***<br>least Bell's vireo | Endangered | Endangered | G5T2 | S2 | |
| ABPBXA3010 | ***Melospiza melodia***<br>song sparrow ("Modesto" population) | None | None | G5 | S3? | SSC |
| ABPBXB0020 | ***Agelaius tricolor***<br>tricolored blackbird | None | Threatened | G1G2 | S1S2 | SSC |
| ABPBXB3010 | ***Xanthocephalus xanthocephalus***<br>yellow-headed blackbird | None | None | G5 | S3 | SSC |
| AFCHA0209K | ***Oncorhynchus mykiss irideus pop. 11***<br>steelhead - Central Valley DPS | Threatened | None | G5T2Q | S2 | |
| AFCHB01040 | ***Hypomesus transpacificus***<br>Delta smelt | Threatened | Endangered | G1 | S1 | |
| AFCHB03010 | ***Spirinchus thaleichthys***<br>longfin smelt | Candidate | Threatened | G5 | S1 | |
| AFCJB25010 | ***Mylopharodon conocephalus***<br>hardhead | None | None | G3 | S3 | SSC |
| AMACC10010 | ***Antrozous pallidus***<br>pallid bat | None | None | G4 | S3 | SSC |

| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| AMAEB01021 | ***Sylvilagus bachmani riparius***<br>riparian brush rabbit | Endangered | Endangered | G5T1 | S1 | |
| AMAFF08081 | ***Neotoma fuscipes riparia***<br>riparian (=San Joaquin Valley) woodrat | Endangered | None | G5T1Q | S1 | SSC |
| ARACC01020 | ***Anniella pulchra***<br>Northern California legless lizard | None | None | G3 | S3 | SSC |
| ARADB36150 | ***Thamnophis gigas***<br>giant gartersnake | Threatened | Threatened | G2 | S2 | |
| CTT61410CA | ***Great Valley Cottonwood Riparian Forest***<br>Great Valley Cottonwood Riparian Forest | None | None | G2 | S2.1 | |
| CTT61420CA | ***Great Valley Mixed Riparian Forest***<br>Great Valley Mixed Riparian Forest | None | None | G2 | S2.2 | |
| CTT61430CA | ***Great Valley Valley Oak Riparian Forest***<br>Great Valley Valley Oak Riparian Forest | None | None | G1 | S1.1 | |
| CTT63440CA | ***Elderberry Savanna***<br>Elderberry Savanna | None | None | G2 | S2.1 | |
| ICBRA03010 | ***Branchinecta conservatio***<br>Conservancy fairy shrimp | Endangered | None | G2 | S2 | |
| ICBRA03030 | ***Branchinecta lynchi***<br>vernal pool fairy shrimp | Threatened | None | G3 | S3 | |
| ICBRA03150 | ***Branchinecta mesovallensis***<br>midvalley fairy shrimp | None | None | G2 | S2S3 | |
| ICBRA06010 | ***Linderiella occidentalis***<br>California linderiella | None | None | G2G3 | S2S3 | |
| ICBRA10010 | ***Lepidurus packardi***<br>vernal pool tadpole shrimp | Endangered | None | G4 | S3S4 | |
| IICOL48011 | ***Desmocerus californicus dimorphus***<br>valley elderberry longhorn beetle | Threatened | None | G3T2 | S3 | |
| IICOL49010 | ***Anthicus sacramento***<br>Sacramento anthicid beetle | None | None | G1 | S1 | |
| IICOL4C020 | ***Lytta moesta***<br>moestan blister beetle | None | None | G2 | S2 | |
| IIHYM24250 | ***Bombus occidentalis***<br>western bumble bee | None | Candidate Endangered | G2G3 | S1 | |
| IIHYM24380 | ***Bombus caliginosus***<br>obscure bumble bee | None | None | G4? | S1S2 | |
| IIHYM24480 | ***Bombus crotchii***<br>Crotch bumble bee | None | Candidate Endangered | G3G4 | S1S2 | |
| IMBIV19010 | ***Gonidea angulata***<br>western ridged mussel | None | None | G3 | S1S2 | |
| PDAPI0Z0S0 | ***Eryngium racemosum***<br>Delta button-celery | None | Endangered | G1 | S1 | 1B.1 |

# Selected Elements by Element Code

## California Department of Fish and Wildlife

## California Natural Diversity Database

| Element Code | Species | Federal Status | State Status | Global Rank | State Rank | Rare Plant Rank/CDFW SSC or FP |
|---|---|---|---|---|---|---|
| PDAST1C011 | ***Blepharizonia plumosa***<br>big tarplant | None | None | G1G2 | S1S2 | 1B.1 |
| PDAST2E0U0 | ***Cirsium crassicaule***<br>slough thistle | None | None | G1 | S1 | 1B.1 |
| PDAST5L030 | ***Lasthenia chrysantha***<br>alkali-sink goldfields | None | None | G2 | S2 | 1B.1 |
| PDAST9F031 | ***Trichocoronis wrightii var. wrightii***<br>Wright's trichocoronis | None | None | G4T3 | S1 | 2B.1 |
| PDASTE8470 | ***Symphyotrichum lentum***<br>Suisun Marsh aster | None | None | G2 | S2 | 1B.2 |
| PDBRA2R010 | ***Tropidocarpum capparideum***<br>caper-fruited tropidocarpum | None | None | G1 | S1 | 1B.1 |
| PDCAB01010 | ***Brasenia schreberi***<br>watershield | None | None | G5 | S3 | 2B.3 |
| PDCHE040B0 | ***Atriplex cordulata var. cordulata***<br>heartscale | None | None | G3T2 | S2 | 1B.2 |
| PDCHE041F3 | ***Extriplex joaquinana***<br>San Joaquin spearscale | None | None | G2 | S2 | 1B.2 |
| PDCHE042M0 | ***Atriplex minuscula***<br>lesser saltscale | None | None | G2 | S2 | 1B.1 |
| PDFAB0F8R1 | ***Astragalus tener var. tener***<br>alkali milk-vetch | None | None | G2T1 | S1 | 1B.2 |
| PDFAB250D2 | ***Lathyrus jepsonii var. jepsonii***<br>Delta tule pea | None | None | G5T2 | S2 | 1B.2 |
| PDFAB400R5 | ***Trifolium hydrophilum***<br>saline clover | None | None | G2 | S2 | 1B.2 |
| PDMAL0H0R3 | ***Hibiscus lasiocarpos var. occidentalis***<br>woolly rose-mallow | None | None | G5T3 | S3 | 1B.2 |
| PDRAN0B1J0 | ***Delphinium recurvatum***<br>recurved larkspur | None | None | G2? | S2? | 1B.2 |
| PDSCR0J0J0 | ***Chloropyron palmatum***<br>palmate-bracted bird's-beak | Endangered | Endangered | G1 | S1 | 1B.1 |
| PMALI040Q0 | ***Sagittaria sanfordii***<br>Sanford's arrowhead | None | None | G3 | S3 | 1B.2 |
| PMPOA53110 | ***Puccinellia simplex***<br>California alkali grass | None | None | G3 | S2 | 1B.2 |
| PMPOA6N010 | ***Tuctoria greenei***<br>Greene's tuctoria | Endangered | Rare | G1 | S1 | 1B.1 |

**Record Count: 59**

CNPS California Native Plant Society

Inventory of Rare and Endangered Plants

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

## Plant List

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

**Search Criteria**

Found in Quads 3712183, 3712182, 3712181, 3712173, 3712172, 3712171, 3712163, 3712162 and 3712161; Elevation is below 250 meters

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

| Scientific Name | Common Name | Family | Lifeform | Blooming Period | CA Rare Plant Rank | State Rank | Global Rank |
|---|---|---|---|---|---|---|---|
| Astragalus tener var. tener | alkali milk-vetch | Fabaceae | annual herb | Mar-Jun | 1B.2 | S1 | G2T1 |
| Atriplex cordulata var. cordulata | heartscale | Chenopodiaceae | annual herb | Apr-Oct | 1B.2 | S2 | G3T2 |
| Atriplex coronata var. coronata | crownscale | Chenopodiaceae | annual herb | Mar-Oct | 4.2 | S3 | G4T3 |
| Atriplex minuscula | lesser saltscale | Chenopodiaceae | annual herb | May-Oct | 1B.1 | S2 | G2 |
| Blepharizonia plumosa | big tarplant | Asteraceae | annual herb | Jul-Oct | 1B.1 | S1S2 | G1G2 |
| Brasenia schreberi | watershield | Cabombaceae | perennial rhizomatous herb (aquatic) | Jun-Sep | 2B.3 | S3 | G5 |
| Centromadia parryi ssp. rudis | Parry's rough tarplant | Asteraceae | annual herb | May-Oct | 4.2 | S3 | G3T3 |
| Chloropyron palmatum | palmate-bracted bird's-beak | Orobanchaceae | annual herb (hemiparasitic) | May-Oct | 1B.1 | S1 | G1 |
| Cirsium crassicaule | slough thistle | Asteraceae | annual / perennial herb | May-Aug | 1B.1 | S1 | G1 |
| Delphinium recurvatum | recurved larkspur | Ranunculaceae | perennial herb | Mar-Jun | 1B.2 | S2? | G2? |
| Eryngium racemosum | Delta button-celery | Apiaceae | annual / perennial herb | Jun-Oct | 1B.1 | S1 | G1 |
| Extriplex joaquinana | San Joaquin spearscale | Chenopodiaceae | annual herb | Apr-Oct | 1B.2 | S2 | G2 |
| Hibiscus lasiocarpos var. occidentalis | woolly rose-mallow | Malvaceae | perennial rhizomatous herb (emergent) | Jun-Sep | 1B.2 | S3 | G5T3 |
| Lathyrus jepsonii var. jepsonii | Delta tule pea | Fabaceae | perennial herb | May-Jul(Aug-Sep) | 1B.2 | S2 | G5T2 |
| Puccinellia simplex | California alkali grass | Poaceae | annual herb | Mar-May | 1B.2 | S2 | G3 |
| Sagittaria sanfordii | Sanford's arrowhead | Alismataceae | perennial rhizomatous herb (emergent) | May-Oct(Nov) | 1B.2 | S3 | G3 |
| Symphyotrichum lentum | Suisun Marsh aster | Asteraceae | perennial rhizomatous herb | (Apr)May-Nov | 1B.2 | S2 | G2 |
| Trichocoronis wrightii var. wrightii | Wright's trichocoronis | Asteraceae | annual herb | May-Sep | 2B.1 | S1 | G4T3 |
| Trifolium hydrophilum | saline clover | Fabaceae | annual herb | Apr-Jun | 1B.2 | S2 | G2 |

**Suggested Citation**

California Native Plant Society, Rare Plant Program. 2021. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website http://www.rareplants.cnps.org [accessed 30 March 2021].



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# United States Department of the Interior

FISH AND WILDLIFE SERVICE
Sacramento Fish And Wildlife Office
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
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In Reply Refer To:
Consultation Code: 08ESMF00-2021-SLI-1384
Event Code: 08ESMF00-2021-E-04018
Project Name: IPQ44

March 30, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to

utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

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

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

# Official Species List

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

This species list is provided by:

**Sacramento Fish And Wildlife Office**
Federal Building
2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
(916) 414-6600

# Project Summary

Consultation Code: 08ESMF00-2021-SLI-1384
Event Code: 08ESMF00-2021-E-04018
Project Name: IPQ44
Project Type: DEVELOPMENT
Project Description: Development
Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@37.7893785,-121.18428283893957,14z

Counties: San Joaquin County, California

# Endangered Species Act Species

There is a total of 7 threatened, endangered, or candidate species on this species list.

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

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

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

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

## Reptiles

| NAME | STATUS |
|---|---|
| Giant Garter Snake *Thamnophis gigas*<br>No critical habitat has been designated for this species.<br>Species profile: https://ecos.fws.gov/ecp/species/4482 | Threatened |

## Amphibians

| NAME | STATUS |
|---|---|
| California Red-legged Frog *Rana draytonii*<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>Species profile: https://ecos.fws.gov/ecp/species/2891 | Threatened |
| California Tiger Salamander *Ambystoma californiense*<br>Population: U.S.A. (Central CA DPS)<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>Species profile: https://ecos.fws.gov/ecp/species/2076 | Threatened |

## Fishes

| NAME | STATUS |
|---|---|
| Delta Smelt *Hypomesus transpacificus*<br>There is **final** critical habitat for this species. The location of the critical habitat is not available.<br>Species profile: https://ecos.fws.gov/ecp/species/321 | Threatened |

## Insects

| NAME | STATUS |
|---|---|
| Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* | Threatened |

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/7850

## Crustaceans

| NAME | STATUS |
|---|---|
| Vernal Pool Fairy Shrimp *Branchinecta lynchi* | Threatened |

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/498

| | |
|---|---|
| Vernal Pool Tadpole Shrimp *Lepidurus packardi* | Endangered |

There is **final** critical habitat for this species. The location of the critical habitat is not available.
Species profile: https://ecos.fws.gov/ecp/species/2246

## Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

# Appendix C

## Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

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# Appendix C
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| **Plants** | | | |
| *Eryngium racemosum* Delta button-celery | --/SE/1B.1 | Perennial herb that occurs in riparian scrub habitat. Typically found in vernally mesic clay depressions. Blooms from June to October and is found at elevations ranging from 3 to 30 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. One documented occurrence within 5 miles of the Study Area (CDFW 2021). |
| *Tropidocarpum capparideum* caper-fruited tropidocarpum | --/--/1B.1 | Annual herb that occurs in valley and foothill grassland habitats, especially on alkaline hills. Blooms from March to April and is found at elevations ranging from 1 to 545 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. One documented occurrence within 5 miles of the Study Area (CDFW 2021). |
| *Astragalus tener* var. *tener* alkali milk-vetch | --/--/1B.2 | Annual herb that occurs in alkaline vernal pools, playas, and grasslands. Blooms from March to June and is found at elevations ranging from 1 to 60 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Lasthenia chrysantha* alkali-sink goldfields | --/--/1B.1 | Annual herb that occurs in alkaline vernal pools. Blooms from February to June and is found at elevations ranging from 0 to 200 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Blepharizonia plumosa* big tarplant | --/--/1B.1 | Annual herb that occurs in valley and foothill grasslands Found on clay to clay-loam soils; usually on slopes and often in burned areas. Blooms from July to October and is found at elevations ranging from 60 to 505 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Puccinellia simplex* California alkali grass | --/--/1B.2 | Annual herb that occurs in alkaline and vernally mesic meadows and seeps, chenopod scrub, valley and foothill grasslands, and vernal pools. Blooms from March to May and is found at elevations ranging from 2 to 930 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Tuctoria greenei* Greene's tuctoria | FE/--/1B.1 | Annual herb that occurs in vernal pools. Blooms from May to July and is found at elevations ranging from 30 to 1070 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Lathyrus jepsonii* var. *jepsonii* Delta tule pea | --/--/1B.2 | Perennial herb that occurs in marshes and swamps (freshwater and brackish), usually at the marsh edge. Blooms from May to July and is found at elevations ranging from 0 to 5 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Atriplex cordulata var. cordulata* heartscale | --/--/1B.2 | Annual herb that occurs in chenopod scrub, valley and foothill grassland, meadows, and seeps. Typically found on alkaline flats and scalds in the Central Valley. Blooms from April to October and is found at elevations ranging from 3 to 275 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Atriplex minuscula* lesser saltscale | --/--/1B.1 | Annual herb that occurs on alkaline soils in chenopod scrub, playas, and valley and foothill grassland habitats. Blooms from May to October and is found at elevations ranging from 0 to 225 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Chloropyron palmatum* palmate-bracted bird's beak | FE/SE/-- | Annual herb that occurs in chenopod scrub and valley and foothill grassland habitats. Occurs on alkaline or Pescadero silty clay soils. Blooms from May to October and is found at elevations ranging from 5 to 155 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Delphinium recurvatum* recurved larkspur | --/--/1B.1 | Perennial herb that occurs on alkaline soils; often in valley saltbush or chenopod scrub. Blooms from March to June and is found at elevations ranging from 3 to 790 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Trifolium hydrophilum* saline clover | --/--/1B.1 | Annual herb that occurs in marshes, swamps, valley and foothill grassland, and vernal pools. Generally found in mesic, alkaline sites. Blooms from April to June and is found at elevations ranging from 1 to 335 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Extriplex joaquinana* San Joaquin spearscale | --/--/1B.2 | Annual herb that occurs on alkaline soils in chenopod scrub, alkali meadows, playas, and valley and foothill grassland habitats. Blooms from April to October and is found at elevations ranging from 1 to 835 meters. | **Will not occur** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Sagittaria sanfordii* Sanford's arrowhead | --/--/1B.2 | Perennial herb that occurs in standing or slow-moving freshwater ponds, marshes, and ditches. Blooms from May to October and is found at elevations ranging from 0 to 605 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Cirsium crassicaule* slough thistle | --/--/1B.1 | Annual herb that occurs in sloughs, riverbanks, and marshy areas within chenopod and riparian scrub habitats. Blooms from May to August and ids found at elevations ranging from 3 to 95 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Symphyotrichum lentum* Suisun Marsh aster | --/--/1B.2 | Perennial herb that occurs in marshes and swamps (brackish and freshwater). Most often found along sloughs with *Phragmites, Scirpus*, blackberry, and *Typha*. Blooms from May to November and is found at elevations from 0 to 15 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Brasenia schreberi* watershield | --/--/2B.3 | Perennial herb that occurs freshwater marshes and swamps. Blooms from June to September and is found at elevations from 30 to 2,200 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| *Hibiscus lasiocarpos* var. *occidentalis* wooly rose mallow | --/--/1B.2 | Perennial herb found in moist, freshwater-soaked river banks, low peat islands in sloughs, and can also occur on riprap and levees. In California, known from the delta watershed. Blooms from June to September and is found at elevations ranging from 0 to 155 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Trichocoronis wrightii* var. *wrightii* Wright's trichocoronis | --/--/2B.1 | Annual herb that occurs in marshes and swamps, riparian forest, meadows, seeps, and vernal pools. Blooms from May to September and is found at elevations ranging from 5 to 435 meters. | **Will not occur.** There is no suitable habitat for this species in the Study Area. Much of the surface soil on the site has been disturbed and/or altered due to planting of almond trees and vegetation is regularly maintained and lacks native plant assemblages. |
| **Animals** | | | |
| **Invertebrates** | | | |
| *Branchinecta lynchi* vernal pool fairy shrimp | FT/--/-- | The range of the vernal pool fairy shrimp (VPFS) within California includes the Central Valley and southern California. (USFWS 2005). Populations are known from Stillwater Plain in Shasta County through most of the length of the Central Valley to Pixley in Tulare County (additional disjunct populations exist at various locations throughout state). VPFS occurs mostly in vernal pools, however it is also found in a variety of both natural and artificial wetland habitats, such as alkali pools, ephemeral drainages, stock ponds, roadside ditches, vernal swales, and rock outcrop pools (Helm 1997). Occupied wetlands are typically small (ranging from 0.1 to 0.05 acres in size), and pond for a relatively short duration (3-4 weeks) (Eriksen and Belk 1999). | **Will not occur.** There is no suitable vernal pool habitat in the Study Area. |
| *Bombus crotchii* crotch bumblebee | --/SCE/-- | Occurs in a variety of open habitats from the coastal range east to the crest of the Sierra Nevada. Food plant genera include *Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia*, and *Eriogonum*. | **Will not occur.** Suitable floral species do not occur in the Study Area. This species is also currently rare across its range and is in decline in California (CDFW 2021). |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Bombus occidentalis* western bumblebee | --/SCE/-- | Occurs in grasslands, meadows, and chaparral habitats. Floral plants such as *Lupinus, Ceanothus, Centaurea, Rubus,* and *Trifolium* are necessary food sources. Queen typically establishes a colony within an abandoned rodent hole or other underground crevice, decaying wood, or a grassy mound. | **Will not occur.** Suitable habitat types do not occur in the Study Area. This species is also currently rare across its range and is in decline in California. Current studies show this species is generally limited to high elevation meadows in the Sierra Nevada and small coastal populations (CDFW 2021). Two documented occurrences within 5 miles of the Study Area (dated 1962; CDFW 2021). |
| *Branchinecta conservation* Conservancy fairy shrimp | FE/--/-- | Endemic to the grasslands of the northern two-thirds of the Central Valley**.** Occurs in large, playa-like cool vernal pools with moderately turbid water. Often inhabits astatic pools located in swales formed by old, braided alluvium**.** | **Will not occur.** There is no suitable vernal pool habitat in the Study Area. |
| *Desmocerus californicus californicus* valley elderberry longhorn beetle | FT/--/-- | Endemic to elderberry shrubs (Sambucus spp.) occurring in riparian habitat in the Sacramento and San Joaquin Valleys, riparian habitats in the Sacramento and San Joaquin Valleys, and less common throughout riparian forests of the Central Valley from Redding to Fresno County (USFWS 2014) typically below 152 m amsl (USFWS 2017). | **Will not occur.** Elderberry shrubs that provide habitat for valley elderberry longhorn beetle are not present in the Study Area. |
| *Lepidurus packardi* vernal pool tadpole shrimp | FE/--/-- | The vernal pool tadpole shrimp (VPTS) occurs within the Central Valley of California and in the San Francisco Bay area (USFWS 2005), with the majority of the populations occurring in the Sacramento Valley. This species has also been reported from the Sacramento River Delta to the east side of San Francisco Bay, and from a few scattered localities in the San Joaquin Valley (Rogers 2001). Suitable habitats include vernal | **Will not occur.** There is no suitable vernal pool habitat in the Study Area. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| | | pools, clay flats, alkaline pools, ephemeral stock tanks, roadside ditches, and road ruts (Rogers 2001). Vernal pools may range in size from small, clear, and well-vegetated to highly turbid, alkali scald pools to large winter lakes (Rogers 2001). They may be seasonal or ephemeral and may exhibit a wide range of salinity levels. VPTS survival requires that water bodies be deeper than 5 inches, pond for 40 days or more, and not experience wide daily temperature fluctuations (Rogers 2001). | |
| **Fishes** | | | |
| *Hypomesus transpacificus*<br>Delta smelt | FT/SE/-- | For a large part of their one-year life span, delta smelt live along the freshwater edge of the mixing zone (saltwater-freshwater interface). Shortly before spawning, adults migrate upstream from the brackish-water habitat and disperse into river channels and tidally-influenced backwater sloughs. Most spawning happens in tidally-influenced backwater sloughs and channel edgewaters. Delta smelt are found only from Suisun Bay upstream through the Delta in Contra Costa, Sacramento, San Joaquin, Solano, and Yolo counties (USFWS 1995). | **Will not occur.** There is no suitable aquatic habitat in the Study Area. |
| *Spirinchus thaleichthys*<br>longfin smelt | FCT/ST/-- | Occurs in in open waters of estuaries, mostly in middle or bottom of water column. Prefers salinities of 15-30 ppt, but can be found in completely freshwater to almost pure seawater. | **Will not occur.** There is no suitable aquatic habitat in the Study Area. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Oncorhynchus mykiss irideus* pop. 11 Central Valley Steelhead DPS | FT/--/-- | This distinct population segment includes all naturally spawned anadromous steelhead populations below natural and manmade impassable barriers in the Sacramento and San Joaquin Rivers and their tributaries, excluding steelhead from San Francisco and San Pablo Bays and their tributaries, as well as two artificial propagation programs: the Coleman NFH, and Feather River Hatchery steelhead hatchery programs (NMFS 2016). Steelhead spawn in rivers and streams with cool, clear, water and suitable silt free substrate (NMFS 2016). | **Will not occur.** There is no suitable aquatic habitat in the Study Area. One documented occurrence within 5 miles of the Study Area (CDFW 2021). |
| *Mylopharodon conocephalus* hardhead | --/--/SSC | Occurs in low to mid-elevation streams in the Sacramento-San Joaquin drainage. Also present in the Russian River and reservoirs in Northern California. Prefers clear, deep pools with sand-gravel-boulder bottoms and slow water velocity. Not found where exotic centrarchids predominate. | **Will not occur.** There is no suitable aquatic habitat in the Study Area. |
| **Amphibians** | | | |
| *Ambystoma californiense* California tiger salamander | FT/ST/-- | Requires both aquatic breeding habitat such as vernal pools, temporary ponds, stock ponds, or wetlands, and adjacent upland habitat with small mammal burrows present for refuge. Adults aestivate throughout summer and emerge after heavy rainfall to breed. This species is known to occur within the Central Valley, and Santa Barbara and Sonoma counties. | **Will not occur.** There is no suitable aquatic habitat in the Study Area. The Study Area is flood and drip irrigated and surface water does not last a long enough duration to support this species and/or are routinely flooded and drained from the site. In addition, suitable upland habitat is absent, and the Study Area is bordered by busy roads and highways. The surrounding area also consists of almond orchards or other nut tree farms. Two documented occurrences within 5 miles of the Study Area (CDFW 2021). |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Rana draytonii*<br>California red-legged frog | FT/--/SSC | Adults require dense, shrubby, or emergent riparian vegetation closely associated with deep, still, or slow-moving water. The largest densities of California red-legged frogs are associated with deep-water pools with dense stands of overhanging willows and an intermixed fringe of cattails. Well-vegetated terrestrial areas within the riparian corridor may provide important sheltering habitat during winter. California red-legged frogs aestivate in small mammal burrows, moist leaf litter, and under logs and downed debris. They have been found up to 100 feet from water in adjacent dense riparian vegetation. | **Will not occur**. Suitable upland and aquatic habitat do not occur in the Study Area. This species is considered to be extirpated from the valley floor (USFWS 2002). |
| *Spea hammondii*<br>western spadefoot toad | --/--/SSC | Breeds in vernal pools and seasonal ponds or slow portions of streams in grasslands and woodlands. Adults spend most of their time in underground burrows in grasslands surrounding breeding pools (Jennings and Hayes 1994). Breeding is typically finished by the end of March. Tadpoles mature through late-spring and disperse as pools dry (Zeiner et al. 1988-1990). | **Will not occur.** There is no suitable aquatic breeding habitat in the Study Area. |
| **Reptiles** | | | |
| *Anniella pulchra*<br>northern legless lizard | --/--/SSC | Occurs in chaparral, coastal dunes, and coastal scrub habitats. Sandy or loose loamy soils with a high moisture content are required for this species. Typically found under leaf litter, rocks, or other surface objects. | **Will not occur.** Although suitable sandy soils are present in the Study Area, suitable habitat types do not occur, and the site appears to be regularly disturbed. The Study Area is also on the far northern edge of the range of this species. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Thamnophis gigas*<br>giant garter snake | FT/ST/-- | Endemic to the San Joaquin and Sacramento Valley floors. Inhabits agricultural wetlands and other waterways such as irrigation and drainage canals, rice fields, sloughs, ponds, small lakes, low gradient streams, and adjacent uplands. Requires adequate water during its active season (early spring through mid-fall) to provide food and cover, emergent wetland vegetation for foraging and cover, grassy banks, and openings in waterside vegetation for basking. Inhabits small mammal burrows and other soil crevices above prevailing flood elevations when dormant. | **Will not occur.** There is no suitable aquatic or upland habitat in the Study Area. |
| **Birds** | | | |
| *Falco columbarius*<br>merlin | --/--/WL | An uncommon winter migrant in California; breeds in Alaska and Canada. Uses a variety of open habitats but requires trees close to water for cover and is usually found near coastlines, lakeshores, and wetlands. | **Not expected.** This species may occur in passing as a winter migrant but is not expected to occur. This species is also not known to nest in California. |
| *Branta hutchinsii leucopareia*<br>Aleutian goose | --/--/WL | Winters in pastureland, grasslands, artificial standing waters, and the Sacramento and San Joaquin standing waters. Forages on grain crops, grasslands, and near standing water. | **Will not occur.** Suitable wintering or foraging habitat does not occur in the Study Area. |
| *Agelaius tricolor*<br>tricolored blackbird | --/ST/-- | Nests and seeks cover in emergent wetland vegetation and thorny vegetation such as Himalayan blackberry (*Rubus armeniacus*). Nesting area must be large enough to support a minimum colony of 50 pairs as they are a highly colonial species. Forages on ground in croplands, grassy fields, flooded land, and edges of ponds for insects (Shuford and Gardali 2008). | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area.<br>Two documented occurrences within 5 miles of the Study Area (CDFW 2021). |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Athene cunicularia* burrowing owl | --/--/SSC | Occurs in a variety of open habitats; typically grasslands, desert scrub, agricultural fields, washes, and disturbed areas such as golf courses or vacant lots. Burrows, perch sites, and friable soil are necessary for this species, and areas with low-lying, sparse vegetation are preferred. May utilize culverts, abandoned pipes, rubble piles, and other manmade structures for nesting if burrows are absent. | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area. The Study Area is a large almond orchard and surrounding open areas are vegetated with dense, tall annual grasses. This species may occur in passing; however, there is no habitat to support this species in the Study Area or in adjacent areas for nesting. Three documented occurrences within 5 miles of the Study Area (CDFW 2021). |
| *Coccyzus americanus occidentalis* western yellow-billed cuckoo | FT/SE/-- | Occur in large, dense riparian habitats, particularly cottonwood-willow riparian complexes. Studies in Sacramento have found nesting yellow-billed cuckoos occupied habitats of 25 acres or more of riparian habitat, with 99 acres being the average habitat size. | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area since the Study Area lacks expansive riparian forest. |
| *Buteo swainsoni* Swainson's hawk | --/ST/-- | Swainson's hawks usually arrive in the Central Valley between March 1 and April 1 and migrate south between September and October. Found in a variety of habitats including grasslands, agricultural areas, and open woodlands. Often nests peripherally to riparian systems or other aquatic habitats. Nests in mature lone trees or groves of mature trees in agricultural fields, residential trees, or roadside trees when aquatic habitat is absent. Prefers nest sites adjacent to open areas suitable for foraging. Fremont cottonwood, walnut, and willow, at least 30 feet in height, are the most commonly used nest trees in the Central Valley. | **Present.** A Swainson's hawk pair was observed soaring over the Study Area during the field survey. Although the orchard trees within the Study Area are too small and unsuitable for nesting several trees suitable for nesting occur within a ½-mile radius of the Study Area. This species is not expected to nest or forage within the Study Area but may nest in the surrounding area.<br>Fourteen documented occurrences within 5 miles of the Study Area (CDFW 2021). |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Lanius ludovicianus*<br>loggerhead shrike | --/--/SSC | Occurs in a variety of open habitats such as agricultural fields, riparian areas, desert scrublands, savannas, prairies, and golf courses. Typically found in areas with short vegetation and sparse shrubs or low trees, particularly those with spines or thorns, and often around fence lines or utility poles. Generally builds nest in thorny vegetation, shrub piles, or tumbleweeds. | **Not expected.** The Study Area does not contain suitable open habitat and suitable nesting substrates are absent. This species may pass through the Study Area but is not expected to nest in the Study Area.<br>One documented occurrence within 5 miles of the Study Area (CDFW 2021). |
| *Xanthocephalus xanthocephalus*<br>yellow-headed blackbird | --/--/SSC | Occurs in wetlands, wet prairies, mountain meadows, and other habitats near water. Nesting occurs over water in habitats with abundant cattails, bulrushes, or reeds. Foraging habitat consists of grassland, cropland, or savanna habitat adjacent to nesting sites. | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area. |
| *Eremophila alpestris actia*<br>California horned lark | --/--/WL | Occurs in a variety of open habitats with sparse vegetation such as short-grass prairie, mountain meadows, open coastal plains, fallow grain fields, and alkali flats. Nests on bare ground in a slight depression. | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area. |
| *Vireo bellii pusillus*<br>least Bell's vireo | FE/SE/-- | Summer resident of Southern California that occurs in low riparian habitat in vicinity of water or in dry river bottom. Nests are placed along margins of bushes or on twigs projecting into pathways, usually in willow, *Baccharis*, or mesquite. | **Will not occur.** There is no suitable nesting or foraging habitat in the Study Area. The Study Area is also outside of the current known range of this species (CDFW 2021). |
| *Melospiza melodia*<br>song sparrow (Modesto population) | --/--/SSC | Occurs in marsh habitats with emergent vegetation, riparian forests, and open oak woodlands near water. Most often found in habitats with dense vegetation cover for nesting, semi-open canopies, exposed ground or leaf litter, and a water source. | **Not expected.** There is no suitable nesting habitat in the Study Area. This species may forage or pass through the Study Area but suitable nesting habitat is not present in the Study Area. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Elanus leucurus*<br>white-tailed kite | --/--/FP | Occurs in a variety of habitats and are common in savannah, open oak woodland, marsh, grassland, and agricultural habitats. Forages over open areas and nests in trees growing in isolation or on a forest/woodland edge. | **Not expected.** Open habitat suitable for foraging does not occur in the Study Area. Trees within the Study Area are too small and are unsuitable for nesting. This species may pass through the Study Area but is not expected to occur. |
| **Mammals** | | | |
| *Antrozous pallidus*<br>pallid bat | --/--/SSC | Occurs throughout California except for the high Sierra Nevada and the northern Coast Ranges. Habitats include grasslands, shrublands, woodlands, and forests from sea level to 6,000 feet. Most common in open, dry habitats with rocky areas for roosting; roosts also include cliffs, abandoned buildings, tree hollows, bird boxes, and under bridges (Bolster, ed. 1998). | **Will not occur.** There is no suitable roosting habitat in the Study Area. The Study Area consists entirely of almond orchard, which does not provide habitat for this species. |
| *Neotoma fuscipes riparia*<br>riparian woodrat | FE/--/SSC | Occurs in riparian areas along the San Joaquin, Stanislaus, and Tuolumne rivers. Requires areas with a mix of brush and trees, and suitable nesting sites in trees, snags, or logs (CDFW 2021). | **Will not occur.** There is no suitable habitat in the Study Area. |

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur in the Study Area

| Species Name/ Common Name[1] | Status[2] | Habit, Ecology and Life History | Potential to Occur |
|---|---|---|---|
| *Sylvilagus bachmani riparius* riparian brush rabbit | FE/SE/-- | Endemic to riparian areas on the San Joaquin River in northern Stanislaus County. Typically found in dense thickets of wild rose, willows, and blackberries (CDFW 2021). | **Will not occur.** There is no suitable habitat in the Study Area. The Study Area is also outside of the current known range of this species. |

[1] Sensitive species reported in CNDDB or CNPS on the "Rio Linda" USGS quads, or in USFWS lists for the Study Site.

[2] Status is as follows: Federal (ESA) listing/State (CESA) listing/other CDFW status or CRPR. F = Federal; S = State of California; E = Endangered; T = Threatened; C = Candidate; FP=Fully Protected; SSC=Species of Special Concern; WL=Watch List; Western Bat Working Group (WBWG) M = Medium.

[3] Status in the Study Area is assessed as follows. **Will Not Occur**: Species is either sessile (*i.e.* plants) or so limited to a particular habitat that it cannot disperse on its own and/or habitat suitable for its establishment and survival does not occur on the Study Area; **Not Expected**: Species moves freely and might disperse through or across the Study Area, but suitable habitat for residence or breeding does not occur on the Study Area, potential for an individual of the species to disperse through or forage in the site cannot be excluded with 100% certainty; **Presumed Absent:** Habitat suitable for residence and breeding occurs on the Study Area; however, focused surveys conducted for the current project were negative; **May Occur**: Species was not observed on the site and breeding habitat is not present but the species has the potential to utilize the site for dispersal, **High**: Habitat suitable for residence and breeding occurs on the Study Area and the species has been recorded recently on or near the Study Area, but was not observed during surveys for the current project; **Present**: The species was observed during biological surveys for the current project and is assumed to occupy the Study Area or utilize the Study Area during some portion of its life cycle.

CRPR = California Rare Plant Rank: 1B – rare, threatened, or endangered in California and elsewhere; 2B – rare, threatened, or endangered in California but more common elsewhere. Extension codes: .1 – seriously endangered; .2 – moderately endangered.

# Appendix C (cont.)
# Potential for Regionally-Occurring Special-status Species to Occur on the Property

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# Appendix D

## Plant and Animal Species Observed in the Study Area

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# Appendix D
# Plant Species Observed in the Study Area

| Family | Species Name | Common Name | Cal-IPC |
|---|---|---|---|
| **Native** | | | |
| Asteraceae | *Erigeron canadensis* | horseweed | -- |
| | *Heterotheca grandiflora* | telegraph weed | -- |
| Boraginaceae | *Amsinckia intermedia* | common fiddleneck | -- |
| Cyperaceae | *Cyperus eragrostis* | tall flatsedge | -- |
| Onagraceae | *Epilobium brachycarpum* | annual fireweed | -- |
| Rubiaceae | *Galium aparine* | stickywilly | -- |
| **Non-native** | | | |
| Amaranthaceae | *Amaranthus albus* | pigweed | -- |
| Asteraceae | *Lactuca saligna* | willow lettuce | -- |
| | *Sonchus asper* | spiny sowthistle | -- |
| Brassicaceae | *Brassica nigra* | black mustard | -- |
| | *Capsella bursa-pastoris* | shepherd's purse | -- |
| Caryophyllaceae | *Stellaria media* | chickweed | -- |
| Fabaceae | *Trifolium hirtum* | rose clover | Limited |
| | *Trifolium repens* | white clover | -- |
| Geraniaceae | *Erodium botrys* | long-beak filaree | -- |
| | *Erodium moschatum* | whitestem filaree | -- |
| | *Geranium mole* | crane's bill geranium | -- |
| Malvaceae | *Malva parviflora* | cheeseweed | -- |
| Poaceae | *Avena fatua* | wild oats | Moderate |
| | *Bromus diandrus* | common ripgut grass | Moderate |
| | *Bromus hordeaceus* | soft brome | Limited |
| | *Cynodon dactylon* | Bermuda grass | Moderate |
| | *Hordeum murinum* | fox barley | Moderate |
| | *Poa annua* | annual blue grass | -- |
| Rosaceae | *Prunis dulcis* | domestic almond | -- |

Cal-IPC Rating = Limited –; Moderate –; High.

# Appendix D (cont.)
# Wildlife Species Observed in the Study Area

| Order/Family | Species Name | Common Name | Status* |
|---|---|---|---|
| **Reptiles** | | | |
| Squamata | | | |
| Phrynosomatidae | *Sceloporus occidentalis* | western fence lizard | -- |
| **Birds** | | | |
| Accipitriformes | | | |
| Accipitridae | *Accipiter cooperii* | Cooper's hawk | WL |
| | *Buteo jamaicensis* | red-tailed hawk | -- |
| | *Buteo swainsoni* | Swainson's hawk | ST |
| Caprimulgiformes | | | |
| Trochilidae | *Calypte anna* | Anna's hummingbird | -- |
| Columbiformes | | | |
| Columbidae | *Zenaida macroura* | mourning dove | -- |
| Passeriformes | | | |
| Corvidae | *Aphelocoma californica* | California scrub jay | -- |
| Fringillidae | *Haemorhous mexicanus* | house finch | -- |
| | *Spinus lawrencei* | Lawrence's goldfinch | -- |
| | *Spinus psaltria* | lesser goldfinch | -- |
| Icteridae | *Euphagus cyanocephalus* | Brewer's blackbird | -- |
| Paridae | *Baeolophus inornatus* | oak titmouse | -- |
| Parulidae | *Setophaga coronate* | yellow-rumped warbler | -- |
| Passerellidae | *Chondestes grammacus* | lark sparrow | -- |
| | *Zonotrichia leucophrys* | white-crowned sparrow | -- |
| Sturnidae | *Sturnus vulgaris* | European starling | -- |
| Turdidae | *Sialia mexicana* | western bluebird | -- |
| | *Turdus migratorius* | American robin | |
| Piciformes | | | |
| Picidae | *Colaptes auratus* | northern flicker | -- |
| | *Dryobates nuttallii* | Nuttall's woodpecker | -- |

# Appendix E

## Representative Site Photos

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Photo 1. Representative view of orchard in Study Area. Photograph taken on April 1, 2021.

Photo 2. Dirt access road and adjacent grassland habitat. Photograph taken on April 1, 2021.

Photo 3. Portion of orchard that is drip irrigated. Photograph taken on April 1, 2021.

Photo 4. Portion of orchard that is flood irrigated. Photograph taken on April 1, 2021.

Photo 5. Typical understory in orchard. Photograph taken on April 1, 2021.

Photo 6. Orchard in northern portion of Study Area. Photograph taken on April 1, 2021.

# APPENDIX C

## PRELIMINARY GEOTECHNICAL EXPLORATION

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# YOSEMITE SQUARE
MANTECA, CALIFORNIA

## PRELIMINARY GEOTECHNICAL EXPLORATION

SUBMITTED TO
Mr. Kevin Fryer
IL Housing Solutions, LLC
888 San Clemente Drive, Suite 100
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

May 6, 2021

PROJECT NO.
18586.000.001

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ENGEO
Expect Excellence

Project No.
**18586.000.001**

May 6, 2021

Mr. Kevin Fryer
IL Housing Solutions, LLC
888 San Clemente Drive, Suite 100
Newport Beach, CA 92660

Subject: Yosemite Square
Austin Road
Manteca, California

**PRELIMINARY GEOTECHNICAL EXPLORATION**

Dear Mr. Fryer:

We are pleased to present this preliminary geotechnical report Yosemite Square in Manteca, California. We characterized the subsurface conditions at the site to provide the enclosed preliminary geotechnical recommendations for design.

Our experience and that of our profession clearly indicate that the risk of costly design, construction, and maintenance problems can be significantly lowered by retaining the design geotechnical engineering firm to review the project plans and specifications and provide geotechnical observation and testing services during construction. Please let us know when working drawings are nearing completion, and we will be glad to discuss these additional services with you.

If you have any questions or comments regarding this report, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Jason Sedore

Steve Harris, GE

js/sdh/dt

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**APPENDIX B** – Laboratory Test Data

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# 1.0 INTRODUCTION

## 1.1 PURPOSE AND SCOPE

ENGEO prepared this preliminary geotechnical report for design of Yosemite Square in Manteca, California. We prepared this report as outlined in our agreement dated February 26, 2021. ENGEO was authorized to conduct the following scope of services.

- Subsurface field exploration
- Soil laboratory testing
- Data analysis and conclusions
- Report preparation

For our use, we received:

- Yosemite Square Preliminary Bubble Plan prepared Northstar Engineering Group, Inc., dated January 28, 2021.
- Condor Earth Technologies, Inc., Feasibility Geotechnical Engineering Study – Proposed Yosemite Square Business Park, Manteca, California; July 23, 2010; Condor Project No. 5154B

This report was prepared for the exclusive use of our client and their consultants for preliminary design of the subject project. In the event that any changes are made in the character, design or layout of the development, we should be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are necessary. This document may not be reproduced in whole or in part by any means whatsoever, nor may it be quoted or excerpted without our express written consent.

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## 1.2 PROJECT LOCATION

The project is located northeast of the intersection of California State Highway 99 (CA-99) and California State Highway 120 (CA-120) in Manteca, California. The site is approximately 130 acres in area and is bordered by an existing mobile home park to the north, CA-99 to the west, and agricultural fields and rural residences to the south and east.

## 1.3 PROJECT DESCRIPTION

Based on our discussion with you and review of the Yosemite Square Preliminary Bubble Plan, we understand that the following site improvements are proposed.

- One- and two-story houses with concrete slab-on-grade floors
- Relatively minor cut and fills to reach finished grade
- Paved streets
- Underground utilities
- Retaining walls
- Sidewalks
- Landscaping
- Stormwater basins

Structural loads are yet to be determined; however, we assume that structural loads and maximum allowable differential settlements will be representative for this type of construction.

# 2.0 FINDINGS

## 2.1 PREVIOUS FIELD EXPLORATIONS

Condor Earth Technologies Inc. previously completed a geotechnical feasibility study of the subject property in 2010. The previous report included performing nine cone penetrometer tests (CPT) ranging from 10 feet to 50 feet below the existing ground surface and performing laboratory tests on selected soil samples to evaluate their engineering properties. The report summarized their findings, conclusions, and contained preliminary geotechnical recommendations.

## 2.2 SITE BACKGROUND

We reviewed readily available aerial photographs and satellite imagery as well as published geologic and topographic maps. The site has been historically used for agricultural purposes dating back to at least 1957. Currently, the site is in use as on orchard. Surrounding properties have also historically been used for agricultural purposes.

## 2.3 SURFACE CONDITIONS

Site topography generally ranges in elevation from approximately 52 feet above mean sea level (WGS84) in the south to approximately 48 feet above msl to the north.

- Much of the property is covered by dense rows of almond orchards.
- An existing residential home is located on the eastern portion of the site adjacent to Austin Road.
- Several earthen farm roads cross the site.
- CA-99 is located along the western boundary.
- The property appears to utilize both flood-irrigation and spray irrigation to irrigate the orchards.
- Multiple irrigation lines were observed on site. Irrigation risers and pumps are visible within the site boundaries.
- Several stockpiles were observed on site. They appear to consist of native soil or burn piles associated with orchard maintenance.

Please refer to the Site Plan, Figure 2, for more information on site features.

## 2.4 FIELD EXPLORATION

Our field exploration included drilling six borings and performing three percolation tests. We performed our field exploration between April 8 and 9, 2021.

The locations of our explorations are approximate and were estimated by utilizing smart phones equipped with GPS; they should be considered accurate only to the degree implied by the method used

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### 2.4.1 Borings

The approximate location of our six borings are shown on the Site Plan (Figure 2). An ENGEO representative observed the drilling and logged the subsurface conditions at each location. We retained a truck-mounted drill rig and crew to advance the borings using 4-inch-diameter solid-flight auger methods. The borings were advanced to a maximum depth of approximately 26½ feet below existing grade.

Soil samples were collected at frequent intervals using either a 3-inch outside-diameter (O.D.) California-type split-spoon sampler fitted with 6-inch-long brass liners, or a 2-inch O.D. Standard Penetration Test (SPT) split-spoon sampler. The samplers were advanced with a 140-pound hammer with a 30-inch drop, employing a rope-and-cathead hammer system. The penetration of the sampler was field recorded as the number of blows needed to drive the sampler 18 inches in 6-inch increments. The boring logs show the number of blows required for the last 1 foot of penetration, or the number of blows per depth of penetration for samples that met driving refusal. The blow counts depicted on the boring logs have not been converted using any correction factors.

We used the field logs to develop the report logs in Appendix A. The logs depict subsurface conditions at the exploration locations for the date of exploration; however, subsurface conditions may vary with time.

### 2.4.2 Percolation Testing

Three percolation test holes were installed and presoaked on April 8, 2021, within the proposed basin locations. Percolation Test Holes 1-P1, 1-P2, and 1-P3 were drilled to their respective depths of 13 feet, 10 feet, and 15 feet below ground surface to target the proposed bottom of basin elevations. The locations of our percolation tests are shown on the Site Plan, Figure 2. The boring logs for Test Holes 1-P1, 1-P2, and 1-P3 can be found in Appendix A.

The percolation test holes were drilled using a 4-inch-diameter solid-flight auger. Preparation of the percolation test holes began by placing 2 inches of approximately ¾-inch-diameter drain rock in the bottom of each hole. A 3-inch-diameter perforated PVC pipe was then placed in the test holes and surrounded by drain rock extending up to the ground surface. The holes were presoaked prior to performing the percolation tests.

Municipal drinking water was used for the percolation testing. It is our opinion that the percolation rate of drinking water should be similar to stormwater.

ENGEO performed the percolation testing on April 9, 2021. At the start of each test, the hole was refilled with water to approximately 12 inches above the drain rock placed at the bottom of the hole. The water level was then measured at appropriate intervals until the percolation rate stabilized. At the end of each interval, additional water was added, as needed, to reset the water level to approximately 12 inches above the drain rock.

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The percolation rates presented below were calculated using the following equation.

$$PR = \frac{RATE * Ax}{At}$$

Where:

PR = percolation rate, gal/ft$^2$/day or in/hour
RATE = measured rate of head drop in hole, unit length/unit time
Ax = cross-sectional area of test hole (hole bottom area)
At = cylinder wall area + hole bottom area

Based on our measured field test results, we calculated the following approximate infiltration rates summarized in the table below.

**TABLE 2.4.2-1: Stabilized Percolation Rates**

| PERCOLATION TEST LOCATION | STABILIZED PERCOLATION RATE (GAL/FT$^2$/DAY) |
|---|---|
| 1-P1 | 107 |
| 1-P2 | 27 |
| 1-P3 | 186 |

These infiltration rates were calculated based solely on the change in water level measured in the standpipe at the locations tested. The design engineer should consider appropriate conversion factors or factors of safety for the design of the basin.

## 2.5 GEOLOGY AND SEISMICITY

### 2.5.1 Geology

The subject project in located within the margins of Great Valley and Coast Range Geomorphic Provinces of California. This valley is an elongate, asymmetric trough filled with a thick sequence of sediments beginning in the Jurassic period (180 million years ago) and continues currently. The sediments within the valley vary in thickness and are estimated to be up 10 km deep. These sediments are mostly derived from the erosion of the Sierra Nevada Mountain Range to the east, with lesser amounts of material from the Coast Range Mountains to the west.

As shown in Figure 3, Wagner (1991) mapped the project location as Holocene aged dune deposits (Qs) consisting eolian sand, silt, and clay.

### 2.5.2 Seismicity

As with the rest of the Central Valley in Northern California, the site is situated between two seismically active regions. The site is not located within a State of California Earthquake Fault Zone and our review of geologic literature did not identify the presence of any known active or potentially active faults on the project site. Based on the 2008 USGS National Seismic Hazard Maps, the nearest active fault is the Great Valley 7 fault located approximately 15.6 miles to the southwest. Other active faults located near the site include the Greenville fault, located approximately 24.4 miles to the southwest, the Mount Diablo Thrust fault, located approximately 35.25 miles to the northwest, the Ortigalita fault, located approximately 36 miles to the west, the

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Calaveras fault, located approximately 40.2 miles to the west, the Hayward Rodgers Creek fault, located approximately 43.2 miles to the west, and the San Andreas fault, located approximately 61.3 miles to the west. Many earthquakes of low magnitude occur every year throughout the region.

The Great Valley fault is a blind thrust fault with no known surface expression; the presumed fault location has been based on historical regional seismic activity and isolated subsurface information. Portions of the Great Valley fault are considered seismically active thrust faults; however, since the Great Valley fault segments are not known to extend to the ground surface, the State of California has not defined Earthquake Fault Hazard Zones around the presumed traces. The Great Valley fault is considered capable of causing significant ground shaking at the site, but the recurrence interval is believed longer than for more distant, strike-slip faults. Recent studies suggest that this boundary fault may have been the cause of the Vacaville-Winters earthquake sequence of April 1892.Further seismic activity can be expected to continue along the western margin of the Central Valley.

Numerous small earthquakes occur every year in the San Francisco Bay Region, and larger earthquakes have been recorded and can be expected to occur in the future. Figure 4 shows the approximate locations of these faults and significant historic earthquakes recorded within the San Francisco Bay and Central Valley Region. The Uniform California Earthquake Rupture Forecast (UCERF 3) (Field et al., 2015) estimates the 30-year probability for a magnitude 6.7 or greater earthquake in Northern California at approximately 95 percent, considering the known active seismic sources in the region.

## 2.6 SUBSURFACE CONDITIONS

In general, our explorations indicate that the upper 15 to 20 feet consists primarily of silty sand to poorly graded sand underlain by interbedded layers of lean clay and silty sand to the maximum depth explored of 26½ feet.

Consult the Site Plan and bore logs for specific subsurface conditions at each location. We include our exploration logs in Appendix A. The logs contain the soil type, color, consistency, and visual classification in general accordance with the Unified Soil Classification System. The logs graphically depict the subsurface conditions encountered at the time of the exploration.

## 2.7 GROUNDWATER CONDITIONS

We observed static groundwater within our explorations. We summarize our observations in the table below:

**TABLE 2.7-1: Groundwater Observations**

| EXPLORATION LOCATION | APPROX. DEPTH TO GROUNDWATER (FEET) | APPROX. GROUNDWATER ELEVATION (FEET, WGS84) |
|---|---|---|
| 1-B1 | 25 | 22 |

Fluctuations in the level of groundwater may occur due to variations in rainfall, irrigation practice, and other factors not evident at the time measurements were made.

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### 2.8 LABORATORY TESTING

The laboratory test results are included on the bore logs in Appendix A. Individual test results are presented in Appendix B. For this project, we performed moisture content, sieve analysis, R-Value, and hydrometer testing.

## 3.0 CONCLUSIONS

From a geotechnical engineering viewpoint, the site is suitable for the proposed development on a preliminary basis, provided a design-level study is performed and the geotechnical recommendations in this report are properly incorporated into the design plans and specifications.

The primary geotechnical concern that could affect development on the site are the potential for liquefiable soils and undocumented fill. We summarize our conclusions below.

### 3.1 EXISTING FILL

Our explorations did not identify any undocumented fill. However, undocumented fill can be expected to be found in the vicinity of the existing structures, stockpiles of native soil or burn piles, and within the agricultural access roads. The location and extent of the undocumented fill should be confirmed with additional explorations during a design-level geotechnical report.

Non-engineered fill can undergo excessive settlement, especially under new fill or building loads. We recommend complete removal and recompaction of the existing fill. We present fill removal recommendations in Section 4.0.

### 3.2 EXPANSIVE SOIL

Based on our subsurface exploration, laboratory test results, and preliminary project data presented in Section 1.0, we opine that expansive soil should not affect the proposed development. Total vertical rise due to expansive soil is negligible. If potentially expansive soil is encountered during grading or utility installation, selective mixing should be done to reduce the expansive potential. ENGEO should be retained to review final grading and site improvement plans, and to observe and test earthwork construction at the site.

### 3.3 SEISMIC HAZARDS

Potential seismic hazards resulting from a nearby moderate to major earthquake can generally be classified as primary and secondary. The primary effect is ground rupture, also called surface faulting. The common secondary seismic hazards include ground shaking and ground lurching. The following sections present a discussion of these hazards as they apply to the site. Based on topographic and lithologic data, the risk of regional subsidence or uplift, lateral spreading, landslides, tsunamis, flooding or seiches is considered low to negligible at the site.

#### 3.3.1 Ground Rupture

Since there are no known active faults crossing the property and the site is not located within an Earthquake Fault Special Study Zone, it is our opinion that ground rupture is unlikely at the subject property.

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### 3.3.2 Ground Shaking

An earthquake of moderate to high magnitude generated by the Great Valley fault could cause considerable ground shaking at the site, similar to that which has occurred in the past. To mitigate the shaking effects, structures should be designed using sound engineering judgment and the 2019 California Building Code (CBC) requirements, as a minimum. Seismic design provisions of current building codes generally prescribe minimum lateral forces, applied statically to the structure, combined with the gravity forces of dead-and-live loads. The code-prescribed lateral forces are generally considered to be substantially smaller than the comparable forces that would be associated with a major earthquake. Therefore, structures should be able to: (1) resist minor earthquakes without damage, (2) resist moderate earthquakes without structural damage but with some nonstructural damage, and (3) resist major earthquakes without collapse but with some structural as well as nonstructural damage. Conformance to the current building code recommendations does not constitute any kind of guarantee that significant structural damage would not occur in the event of a maximum magnitude earthquake; however, it is reasonable to expect that a well-designed and well-constructed structure will not collapse or cause loss of life in a major earthquake (SEAOC, 1996).

### 3.3.3 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soil most susceptible to liquefaction is clean, loose, saturated, uniformly graded, fine-grained sand. The sand encountered in our borings was generally loose to medium dense and often contained a varying amounts of fine-grained material. In addition, groundwater was encountered at an approximate depth of 25 feet in our borings. For these reasons and based upon engineering judgment, it is our opinion on a preliminary basis that the potential for liquefaction at the site is increased during seismic shaking. This should be studied further with additional explorations and analysis during a design-level study.

### 3.3.4 Flooding

Based on review of available maps on the FEMA Flood Map Service Center, the area considered an area of minimal flood hazard.

A Civil Engineer should review pertinent information relating to possible flood levels for the subject site based on final pad elevations and provide appropriate design measures for development of the project, if recommended.

## 3.4 2019 CBC SEISMIC DESIGN PARAMETERS

The 2019 CBC utilizes design criteria set forth in the 2016 ASCE 7 Standard. Based on the subsurface conditions encountered, we characterized the site as Site Class D in accordance with the 2019 CBC. We provide the 2019 CBC seismic design parameters in Table 3.4-1 below, which include design spectral response acceleration parameters based on the mapped Risk Targeted Maximum Considered Earthquake (MCER) spectral response acceleration parameters.

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**TABLE 3.4-1: 2019 CBC Seismic Design Parameters, Latitude:** 37.78742862 **Longitude:** -- 121.18419417

| PARAMETER | VALUE |
|---|---|
| Site Class | D (stiff) |
| Mapped $MCE_R$ Spectral Response Acceleration at Short Periods, $S_S$ (g) | 0.756 |
| Mapped $MCE_R$ Spectral Response Acceleration at 1-second Period, $S_1$ (g) | 0.29 |
| Site Coefficient, $F_A$ | 1.197 |
| Site Coefficient, $F_V$ | *Null |
| $MCE_R$ Spectral Response Acceleration at Short Periods, $S_{MS}$ (g) | 0.906 |
| $MCE_R$ Spectral Response Acceleration at 1-second Period, $S_{M1}$ (g) | *Null |
| Design Spectral Response Acceleration at Short Periods, $S_{DS}$ (g) | 0.604 |
| Design Spectral Response Acceleration at 1-second Period, $S_{D1}$ (g) | *Null |
| Mapped MCE Geometric Mean ($MCE_G$) Peak Ground Acceleration, PGA (g) | 0.316 |
| Site Coefficient, $F_{PGA}$ | 1.284 |
| $MCE_G$ Peak Ground Acceleration adjusted for Site Class effects, $PGA_M$ (g) | 0.405 |
| Long period transition-period, $T_L$ | 12 seconds |

*Requires site-specific ground motion hazard analysis per ASCE 7-16 Section 11.4.8

Considering the single-family residential development, we estimate the fundamental periods of the proposed structures to be less than $1.5T_s$. Therefore, the structural engineer may consider exception(s) of Section 11.4.8 of ASCE 7-16 as follows.

> "A ground motion hazard analysis is not required for structures… where, structures on Site Class D sites with $S_1$ greater than or equal to 0.2, provided the value of the seismic response coefficient $C_s$ is determined by Eq. (12.8-2) of ASCE 7-16 for values of $T \leq 1.5T_S$ and taken as equal to 1.5 times the value computed in accordance with Eq. (12.8-3) of ASCE 7-16 for $1.5T_s < T \leq T_L$."

We recommend that we collaborate with the structural engineer of record to further evaluate the effects of taking the exceptions on the structural design and identify the need for performing a site-specific seismic hazard analysis. We can provide a scope for site-specific seismic hazard analysis and ground motion study under separate cover, if needed.

## 4.0 PRELIMINARY EARTHWORK RECOMMENDATIONS

As used in this report, relative compaction refers to the in-place dry unit weight of soil expressed as a percentage of the maximum dry unit weight of the same soil, as determined by the ASTM D1557 laboratory compaction test procedure, latest edition. Compacted soil is not acceptable if it is unstable; it should exhibit only minimal flexing or pumping, as observed by an ENGEO representative. The term "moisture condition" refers to adjusting the moisture content of the soil by either drying if too wet or adding water if too dry.

We define "structural areas" as any area sensitive to settlement of compacted soil. These areas include, but are not limited to building pads, sidewalks, pavement areas, and retaining walls.

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## 4.1 DEMOLITION AND GENERAL SITE CLEARING

Site development will commence with the general clearing of the site and the excavation and removal of buried structures. Areas to be developed should be cleared of surface and subsurface deleterious materials, including existing building foundations, septic systems, slabs, buried utility and irrigation lines, pavements, debris, designated trees, shrubs, and associated roots. All debris should be removed from any location to be graded and from areas to receive fill or structures. The depth of removal of such materials should be determined by our representative in the field at the time of grading. We recommend that in the locations where there are existing structures, we will need to over excavate 2 feet of material and rip an additional 12 inches to confirm that all of the pipes, foundations, and debris are removed. The area should extend approximately 10 feet beyond the footprints of the structures. Additional subexcavation may be required based on our field observations. Provided the excavated soil meets the criteria of Section 4.4, it can be placed back as engineered fill.

As previously discussed, a majority of the site is covered with an orchard. When the trees and associated root systems are removed, it will disturb the upper few feet of the site. In areas to receive fill or less than one foot of cut, the upper one foot of material in areas currently covered by orchard should be subexcavated and then the exposed surface should be ripped a minimum of 12 inches and tree roots should be removed to the extent feasible. The ripped material should then be processed in accordance with Section 4.4. The subexcavated soil can then be placed back as an engineered fill in accordance with Section 4.5.

All excavations from demolition below design grades should be cleaned to a firm undisturbed native soil surface determined by our representative. This surface should then be scarified, moisture conditioned, and backfilled with compacted engineered fill. All backfill materials should be placed and compacted as engineered fill according to the recommendations in Section 4.5.

We recommend you retain our services to observe and test backfilling. No loose or uncontrolled backfilling of depressions resulting from demolition or stripping is permitted.

## 4.2 EXISTING UNDOCUMENTED FILL REMOVAL

Remove existing undocumented fill to competent native soil, as evaluated by ENGEO. Reuse of this material is acceptable if meeting the criteria in Section 4.4. Undocumented fill can be expected to be found in the vicinity of the existing structures, stockpiles of native soil or burn piles, and within the agricultural access roads.

## 4.3 OVER-OPTIMUM SOIL MOISTURE CONDITIONS

The contractor should anticipate encountering excessively over-optimum (wet) soil moisture conditions during winter or spring grading, or during or following periods of rain. Wet soil can make proper compaction difficult or impossible. Wet soil conditions can be mitigated by:

1. Frequent spreading and mixing during warm dry weather;
2. Mixing with drier materials;
3. Mixing with a cement product; or
4. Stabilizing with aggregate, geotextile stabilization fabric, or both.

Options 3 and 4 should be evaluated by ENGEO prior to implementation.

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## 4.4 ACCEPTABLE FILL

On-site soil material is suitable as fill material provided it is processed to remove concentrations of organic material, debris, and particles greater than 6 inches in maximum dimension. Imported fill materials should have a plasticity index of 12 or lower. Allow ENGEO to sample and test proposed imported fill materials at least 5 days prior to delivery to the site.

## 4.5 FILL COMPACTION

### 4.5.1 General

The contractor is responsible for conducting all trenching and shoring in accordance with CALOSHA requirements. Project consultants involved in utility design should specify pipe bedding materials. Where utility trenches are located beside foundation areas, careful backfill operations are recommended. Utility trenches should be constructed parallel to foundations entirely above a plane extending down from the lower edge of the footing at an angle of 45 degrees. Utility companies and Landscape Architects should be supplied with this information.

Utility trenches in paved areas should be constructed in accordance with City of Manteca requirements. Owners should be notified if a conflict between City or other agency requirements and the recommendations contained in this report are observed to provide a resolution prior to submitting bids.

### 4.5.2 Grading in Structural Areas

Perform subgrade compaction prior to fill placement, following cutting operations, and in areas left as follows:

- Scarify to a depth of 12 inches.
- Moisture condition to at least 1 percentage points over optimum.
- Compact the soil to a minimum of 92 percent of relative compaction.

After the subgrade has been compacted, place and compact acceptable fill as follows:

- Spread fill in loose lifts that do not exceed 12 inches.
- Moisture condition to at least 1 percentage points over optimum.
- Compact the soil to a minimum of 92 percent of relative compaction.
- Compact the upper 12 inches of finish pavement subgrade to at least 95 percent relative compaction prior to aggregate base placement.

### 4.5.3 Underground Utility Backfill

Place and compact trench backfill as follows:

- Trench backfill should have a maximum particle size of 6 inches.
- Spread fill in loose lifts that do not exceed 12 inches.

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- Moisture condition to at least 1 percentage points over optimum outside the trench.
- Compact the soil to a minimum of 92 percent of relative compaction.
- Compact the upper 12 inches of finish pavement subgrade to at least 95 percent relative compaction prior to aggregate base placement.

Jetting of backfill is not an acceptable means of compaction.

#### 4.5.4 Aggregate Base

Compact the pavement Caltrans Class 2 Aggregate Base section to at least 95 percent relative compaction (ASTM D1557). Moisture condition aggregate base to or slightly above the optimum moisture content prior to compaction.

### 4.6 SITE DRAINAGE

The project civil engineer is responsible for designing surface drainage improvements. With regard to geotechnical engineering issues, we recommend that finish grades be sloped away from buildings and pavements to the maximum extent practical to reduce the potentially damaging effects of expansive soil. As a minimum, we recommend the following:

1. Discharge roof downspouts into closed conduits and direct away from foundations and pavements to appropriate drainage devices.
2. Do not allow water to pond near foundations, pavements, or exterior flatwork.
3. Do not allow subsurface irrigation systems adjacent to roadways or structures.

## 5.0 PRELIMINARY FOUNDATION RECOMMENDATIONS

We developed preliminary foundation recommendations using data obtained from our field exploration, laboratory test results, and engineering analysis.

### 5.1 POST-TENSIONED MAT FOUNDATIONS

We recommend that the proposed single-family residential structures be supported on post-tensioned (PT) mat foundations bearing on prepared native soil or engineered fill.

The structural engineer should determine the appropriate PT mat thickness using the geotechnical recommendations in this report; we defer to the professional judgment of the structural engineer on the necessary mat thickness. The post-tensioned mat foundation should include a 2-inch thickened edge. ENGEO should be retained to review the PT mat foundation design.

PT mats should be designed for an average allowable bearing pressure of 1,000 pounds per square foot (psf) for dead-plus-live loads, with maximum localized bearing pressures of 1,500 psf at column or wall loads. Allowable bearing pressures can be increased by one-third for all loads including wind or seismic. Design PT mats using the criteria presented in Table 5.1-1 below.

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**TABLE 5.1-1: Post-Tensioned Mat Design Recommendations**

| CONDITION | CENTER LIFT | EDGE LIFT |
|---|---|---|
| Edge Moisture Variation Distance, $e_m$ (feet) | **9.0** | **5.7** |
| Differential Soil Movement, $y_m$ (inches) | **0.0** | **0.2** |

The above values are based on the procedure presented by the Post-Tensioning Institute "Design of Post-Tensioned Slabs-on-Ground" Third Edition, including appropriate addenda (2007).

Underlay PT mats with a moisture reduction system as recommended below. In addition, moisture conditioning of the building foundation subgrade should be to a moisture content at least 4 percentage points above optimum immediately prior to foundation construction. The subgrade should not be allowed to dry prior to concrete placement. We also recommend that ENGEO be retained to observe the pre-pour moisture conditions to check that our report recommendations have been followed.

### 5.1.1 Foundation Lateral Resistance

Lateral loads may be resisted by friction along the base and by passive pressure along the sides of foundations. The passive pressure is based on an equivalent fluid pressure in pounds per cubic foot (pcf). We recommend the following allowable values for design.

- Passive Lateral Pressure: 300 pcf
- Coefficient of Friction: 0.30

The above allowable values include a factor of safety of 1.5. Increase the above values by one-third for the short-term effects of wind or seismic loading.

Passive lateral pressure should not be used for footings on or above slopes.

### 5.1.2 Settlement

A detailed settlement analysis was not performed as part of this study. Although we do not anticipate needing to design structures to accommodate significant settlement, we recommend a detailed settlement analysis be performed during a design-level geotechnical exploration.

### 5.1.3 Slab Moisture Vapor Reduction

When buildings are constructed with concrete slab-on-grade, such as post-tensioned mats, water vapor from beneath the slab will migrate through the slab and into the building. This water vapor can be reduced but not stopped. Vapor transmission can negatively affect floor coverings and lead to increased moisture within a building. When water vapor migrating through the slab would be undesirable, we recommend the following to reduce, but not stop, water vapor transmission upward through the slab-on-grade.

1. Install a vapor retarder membrane directly beneath the slab. Seal the vapor retarder at all seams and pipe penetrations. Vapor retarders shall conform to Class A vapor retarder in accordance with ASTM E 1745, latest edition, "Standard Specification for Plastic Water Vapor Retarders used in Contact with Soil or Granular Fill under Concrete Slabs."
2. Concrete shall have a concrete water-cement ratio of no more than 0.50.

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3. Provide inspection and testing during concrete placement to check that the proper concrete and water cement ratio are used.

The structural engineer should be consulted as to the use of a layer of clean sand or pea gravel (less than 5 percent passing the U.S. Standard No. 200 Sieve) placed on top of the vapor retarder membrane to assist in concrete curing.

# 6.0 PRELIMINARY PAVEMENT DESIGN

## 6.1 FLEXIBLE PAVEMENTS

We obtained one representative bulk sample of the surface soil from the site and performed R-value tests to provide data for pavement design. The results of the test are included in Appendix B and indicate an R-value of 70. We judge an R-Value of 40 be appropriate for this preliminary design.

Using estimated traffic indices for various pavement loading requirements, we developed the following preliminary recommended pavement sections using Topic 633 of the Caltrans Highway Design Manual (including the asphalt factor of safety), presented in the table below.

**TABLE 6.1-1: Preliminary Recommended Asphalt Concrete Pavement Sections**

| TRAFFIC INDEX | SECTION | |
|---|---|---|
| | ASPHALT CONCRETE (INCHES) | CLASS 2 AGGREGATE BASE (INCHES) |
| 4 | 2.5 | 4.0 |
| 5 | 3 | 4.0 |
| 6 | 3½ | 6.0 |
| 7 | 4 | 7.0 |
| 8 | 5 | 8.0 |
| 9 | 5½ | 10.0 |
| 10 | 5½ | 14.0 |

The civil engineer should determine the appropriate traffic indexes based on the estimated traffic loads and frequencies.

## 6.2 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 4.4. Aggregate Base should meet the requirements for ¾-inch maximum Class 2 AB in accordance with Section 26 1.02B of the latest Caltrans Standard Specifications.

# 7.0 DESIGN-LEVEL GEOTECHNICAL REPORT

This report presents preliminary geotechnical findings, conclusions and recommendations intended for preliminary planning purposes only. A design-level geotechnical exploration and assessment should be performed when development plans are available. The design-level geotechnical report should further discuss topics presented in this report and address the following items.

- Additional field exploration and laboratory testing to support design-level recommendations as needed.
- Design-level analyses related to geologic and geotechnical hazards.
- Seismic hazard analyses based on the current building code, including a detailed liquefaction analysis.
- Design-level earthwork, improvements, and construction recommendations.

# 8.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents geotechnical recommendations for design of the improvements discussed in Section 1.3 for the Yosemite Square, Manteca, California project. If changes occur in the nature or design of the project, we should be allowed to review this report and provide additional recommendations, if any. It is the responsibility of the owner to transmit the information and recommendations of this report to the appropriate organizations or people involved in design of the project, including but not limited to developers, owners, buyers, architects, engineers, and designers. The conclusions and recommendations contained in this report are solely professional opinions and are valid for a period of no more than 2 years from the date of report issuance.

We strived to perform our professional services in accordance with generally accepted principles and practices currently employed in the area; there is no warranty, express or implied. There are risks of earth movement and property damages inherent in building on or with earth materials. We are unable to eliminate all risks; therefore, we are unable to guarantee or warrant the results of our services.

This report is based upon field and other conditions discovered at the time of report preparation. We developed this report with limited subsurface exploration data. We assumed that our subsurface exploration data are representative of the actual subsurface conditions across the site. Considering possible underground variability of soil and groundwater, additional costs may be required to complete the project. We recommend that the owner establish a contingency fund to cover such costs. If unexpected conditions are encountered, ENGEO must be notified immediately to review these conditions and provide additional and/or modified recommendations, as necessary.

Our services did not include excavation sloping or shoring, soil volume change factors, flood potential, or a geohazard exploration. In addition, our geotechnical exploration did not include work to determine the existence of possible hazardous materials. If any hazardous materials are encountered during construction, the proper regulatory officials must be notified immediately.

This document must not be subject to unauthorized reuse, that is, reusing without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time.

Actual field or other conditions will necessitate clarifications, adjustments, modifications or other changes to ENGEO's documents. Therefore, ENGEO must be engaged to prepare the necessary clarifications, adjustments, modifications or other changes before construction activities commence or further activity proceeds. If ENGEO's scope of services does not include on-site construction observation, or if other persons or entities are retained to provide such services, ENGEO cannot be held responsible for any or all claims arising from or resulting from the performance of such services by other persons or entities, and from any or all claims arising from

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or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

We determined the lines designating the interface between layers on the exploration logs using visual observations. The transition between the materials may be abrupt or gradual. The exploration logs contain information concerning samples recovered, indications of the presence of various materials such as clay, sand, silt, rock, existing fill, etc., and observations of groundwater encountered. The field logs also contain our interpretation of the subsurface conditions between sample locations. Therefore, the logs contain both factual and interpretative information. Our recommendations are based on the contents of the final logs, which represent our interpretation of the field logs.

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## FIGURES

FIGURE 1: Vicinity Map
FIGURE 2: Site Plan
FIGURE 3: Regional Geologic Map
FIGURE 4: Regional Faulting and Seismicity Map

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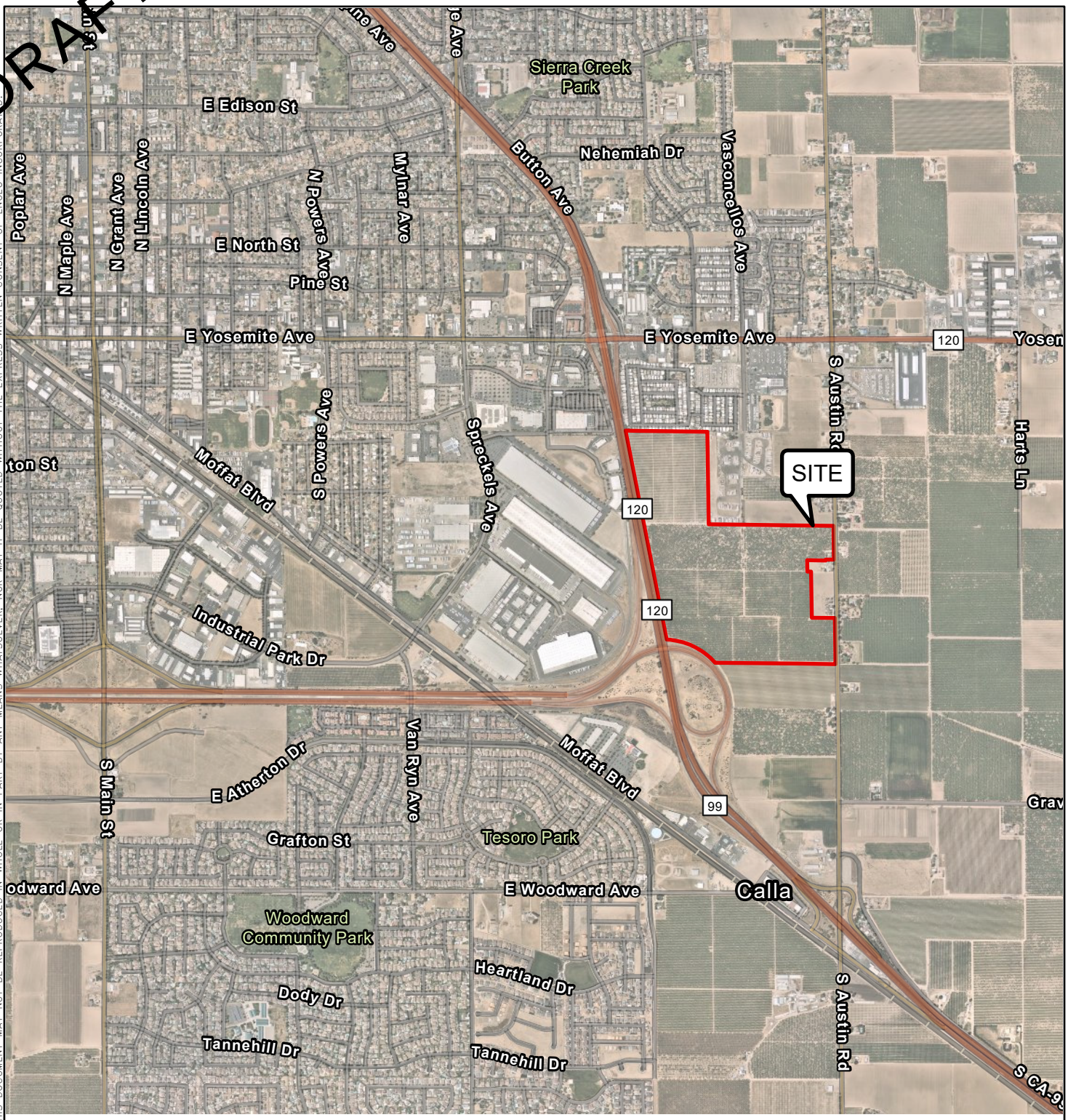


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0 1,000 2,000

FEET

BASEMAP SOURCE: NEARMAP MAPPING SERVICE 7/11/2020

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# VICINITY MAP

YOSEMITE SQUARE

MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: ZAC |

FIGURE NO. 1

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\GEOTECH\GEX\YOSEMITE SQUARE.APRX
LAYOUT: VICINITY USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

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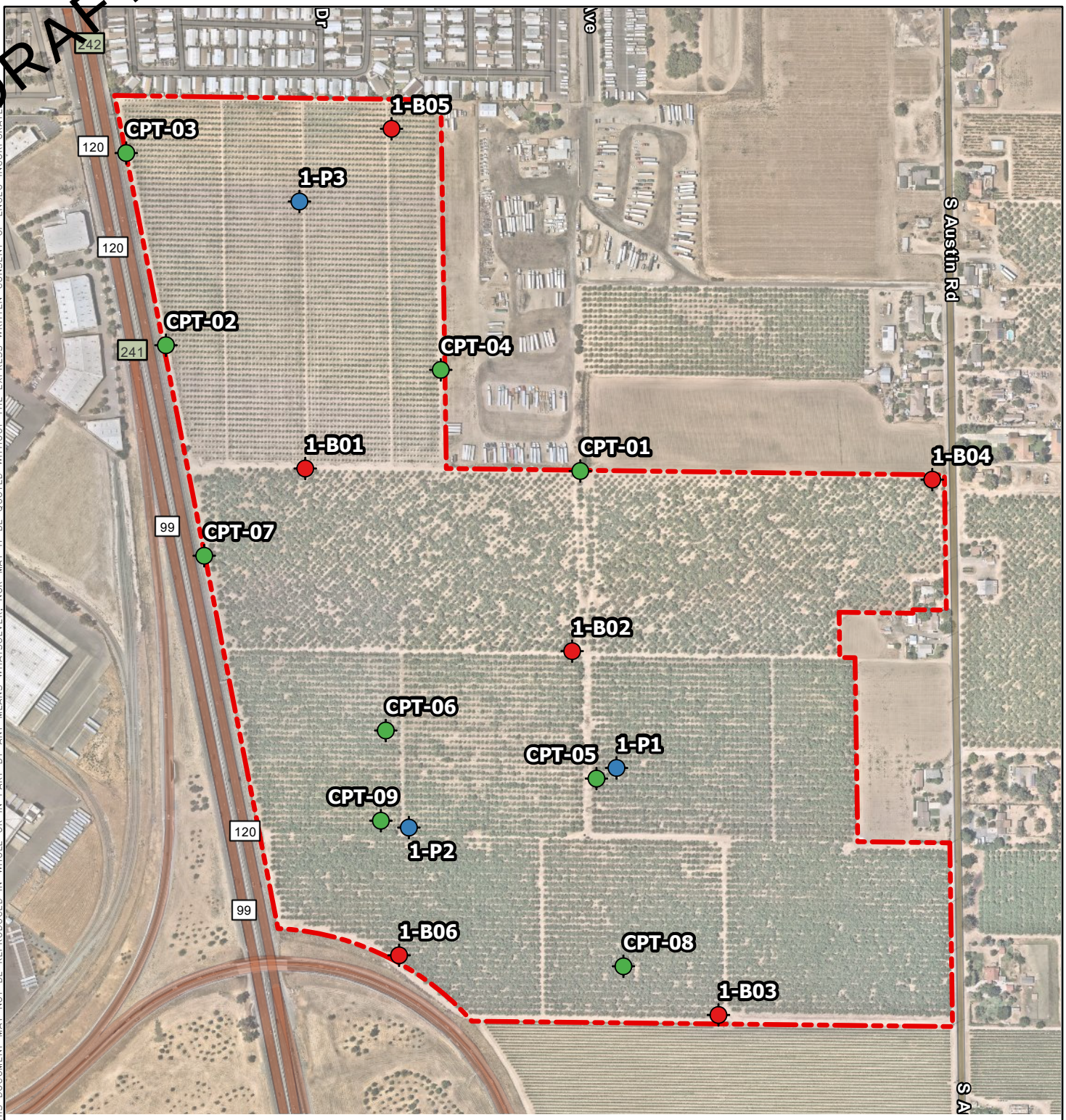


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0 250 500

FEET

## EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- PROJECT SITE
- BORING (ENGEO, 2021)
- PERCOLATION TEST (ENGEO, 2021)
- CONE PENETRATION TEST (CONDOR, 2010)

BASEMAP SOURCE: NEARMAP MAPPING SERVICE 7/11/2020

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ENGEO Expect Excellence

# SITE PLAN

YOSEMITE SQUARE

MANTECA, CALIFORNIA

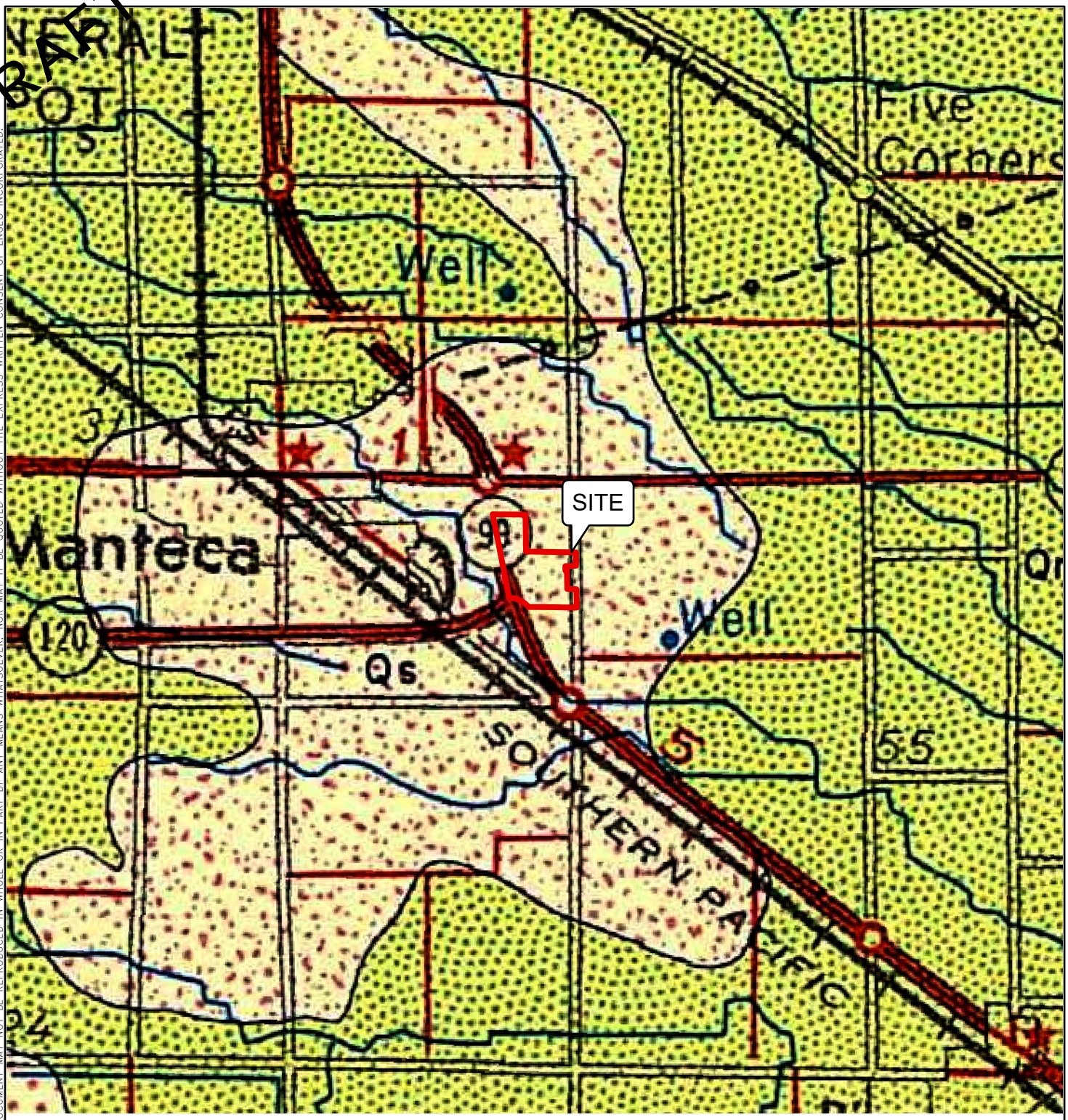
| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: ZAC |

FIGURE NO. 2

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\GEOTECH\GEX\YOSEMITE SQUARE.APRX
LAYOUT: SITE PLAN USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

DRAFT




## EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- Qs — DUNE SAND
- Qm — MODESTO FORMATION

N

0 2,500 5,000

FEET

BASEMAP SOURCE: WAGNER, 1991

ENGEO Expect Excellence

# REGIONAL GEOLOGIC MAP

YOSEMITE SQUARE

MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: ZAC |

FIGURE NO. 3

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PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\GEOTECH\GEX\YOSEMITE SQUARE.APRX
LAYOUT: GEOLOGIC USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

DRAFT

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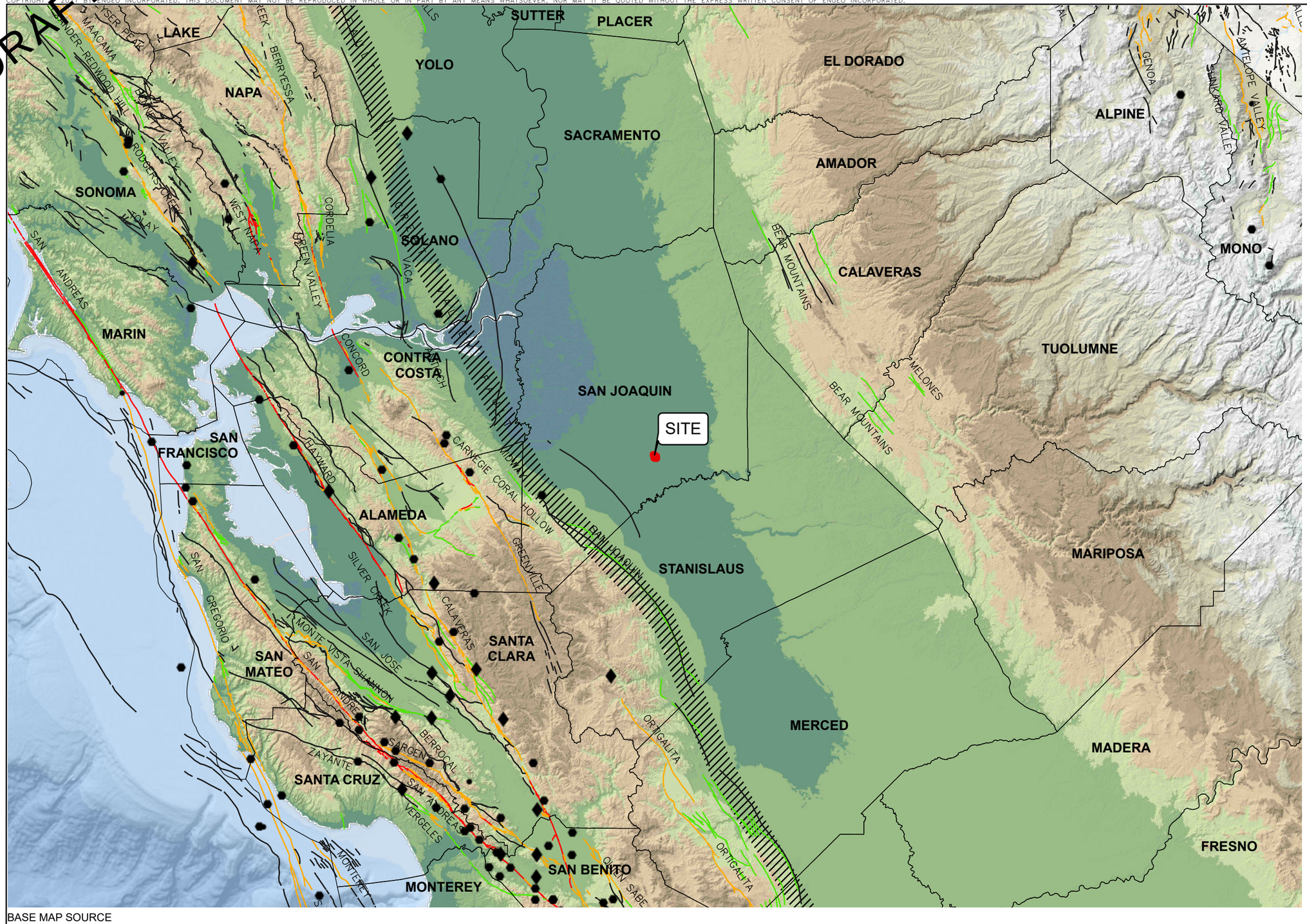


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Miles

## EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

**EARTHQUAKE**

- MAGNITUDE 7+
- MAGNITUDE 6-7
- MAGNITUDE 5-6

**USGS QUATERNARY FAULTS**

- HISTORICAL (<150 YEARS)
- LATEST QUATERNARY (<15,000 YEARS)
- LATE QUATERNARY (<130,000 YEARS)
- UNDIFFERENTIATED QUATERNARY (<1.6 MILLION YEARS)
- HISTORIC BLIND THRUST FAULT ZONE

BASE MAP SOURCE

ESRI, GEBCO, DELORME, NATURALVUE
COLOR HILLSHADE IMAGE BASED ON THE NATIONAL ELEVATION DATA SET (NED) AT 30 METER RESOLUTION
U.S.G.S. QUATERNARY FAULT DATABASE, 2018
U.S.G.S. HISTORIC EARTHQUAKE DATABASE (1800-PRESENT)

ENGEO Expect Excellence

# REGIONAL FAULTING AND SEISMICITY

YOSEMITE SQUARE

MANTECA, CALIFORNIA

| | | |
|---|---|---|
| PROJECT NO. : 18586.000.001 | | FIGURE NO. 4 |
| SCALE: AS SHOWN | | |
| DRAWN BY: QRL | CHECKED BY: ZAC | |

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\GEOTECH\GEX\YOSEMITE SQUARE.APRX
LAYOUT: FAULT&SEISMICITY USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

DRAFT

# APPENDIX A

## BORING LOG KEY
## EXPLORATION LOGS

# KEY TO BORING LOGS

| MAJOR TYPES | | | DESCRIPTION |
|---|---|---|---|
| COARSE-GRAINED SOILS MORE THAN HALF OF MAT'L LARGER THAN #200 SIEVE | GRAVELS MORE THAN HALF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE | CLEAN GRAVELS WITH LESS THAN 5% FINES | GW - Well graded gravels or gravel-sand mixtures<br>GP - Poorly graded gravels or gravel-sand mixtures |
| | | GRAVELS WITH OVER 12 % FINES | GM - Silty gravels, gravel-sand and silt mixtures<br>GC - Clayey gravels, gravel-sand and clay mixtures |
| | SANDS MORE THAN HALF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE | CLEAN SANDS WITH LESS THAN 5% FINES | SW - Well graded sands, or gravelly sand mixtures<br>SP - Poorly graded sands or gravelly sand mixtures |
| | | SANDS WITH OVER 12 % FINES | SM - Silty sand, sand-silt mixtures<br>SC - Clayey sand, sand-clay mixtures |
| FINE-GRAINED SOILS MORE THAN HALF OF MAT'L SMALLER THAN #200 SIEVE | SILTS AND CLAYS LIQUID LIMIT 50 % OR LESS | | ML - Inorganic silt with low to medium plasticity<br>CL - Inorganic clay with low to medium plasticity<br>OL - Low plasticity organic silts and clays |
| | SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 % | | MH - Elastic silt with high plasticity<br>CH - Fat clay with high plasticity<br>OH - Highly plastic organic silts and clays |
| | HIGHLY ORGANIC SOILS | | PT - Peat and other highly organic soils |

For fine-grained soils with 15 to 29% retained on the #200 sieve, the words "with sand" or "with gravel" (whichever is predominant) are added to the group name.

For fine-grained soil with >30% retained on the #200 sieve, the words "sandy" or "gravelly" (whichever is predominant) are added to the group name.

## GRAIN SIZES

| U.S. STANDARD SERIES SIEVE SIZE | | | | CLEAR SQUARE SIEVE OPENINGS | | | |
|---|---|---|---|---|---|---|---|
| 200 | 40 | 10 | 4 | 3/4 " | 3" | 12" | |
| SILTS AND CLAYS | SAND | | | GRAVEL | | COBBLES | BOULDERS |
| | FINE | MEDIUM | COARSE | FINE | COARSE | | |

### RELATIVE DENSITY

| SANDS AND GRAVELS | BLOWS/FOOT (S.P.T.) |
|---|---|
| VERY LOOSE | 0-4 |
| LOOSE | 4-10 |
| MEDIUM DENSE | 10-30 |
| DENSE | 30-50 |
| VERY DENSE | OVER 50 |

### CONSISTENCY

| SILTS AND CLAYS | STRENGTH* |
|---|---|
| VERY SOFT | 0-1/4 |
| SOFT | 1/4-1/2 |
| MEDIUM STIFF | 1/2-1 |
| STIFF | 1-2 |
| VERY STIFF | 2-4 |
| HARD | OVER 4 |

### SAMPLER SYMBOLS

- Modified California (3" O.D.) sampler
- California (2.5" O.D.) sampler
- S.P.T. - Split spoon sampler
- Shelby Tube
- Dames and Moore Piston
- Continuous Core
- Bag Samples
- Grab Samples
- NR No Recovery

### MOISTURE CONDITION

| | |
|---|---|
| DRY | Dusty, dry to touch |
| MOIST | Damp but no visible water |
| WET | Visible freewater |

### LINE TYPES

- ———— Solid - Layer Break
- – – – – – Dashed - Gradational or approximate layer break

### GROUND-WATER SYMBOLS

- Groundwater level during drilling
- Stabilized groundwater level

(S.P.T.) Number of blows of 140 lb. hammer falling 30" to drive a 2-inch O.D. (1-3/8 inch I.D.) sampler

* Unconfined compressive strength in tons/sq. ft., asterisk on log means determined by pocket penetrometer

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# LOG OF BORING 1-B1

LATITUDE: 37.790259 LONGITUDE: -121.187682

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 26½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 46 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 45 | | SILTY SAND (SM), dark yellowish brown, loose, moist, fine- to coarse-grained sand, 20-30% fines | | | 14 | | | | | 7 | | | | |
| | | | | | | 6 | | | | | | | | | |
| 5 | 40 | | Grades to brown, fine- to medium-grained sand, 15-25% fines | | | 10 | | | | | | | | | |
| | | | POORLY GRADED SAND (SP), light brownish gray, medium dense, moist, fine- to coarse-grained sand,<5% fines, contains gravel | | | 14 | | | | | 6 | | | | |
| 10 | 35 | | | | | | | | | | | | | | |
| 15 | 30 | | Grades to gray to light gray | | | 19 | | | | | | | | | |
| | | | SANDY SILT (ML), dark grayish brown, stiff to very stiff, moist, low plasticity, 30-40% fine-grained sand | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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# LOG OF BORING 1-B1

LATITUDE: 37.790259 LONGITUDE: -121.187682

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 26½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 46 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SANDY SILT (ML), dark grayish brown, stiff to very stiff, moist, low plasticity, 30-40% fine-grained sand | | | 33 | | | | | 19 | | | 4.0* | PP |
| | 25 | | SANDY LEAN CLAY (CL), dark grayish brown, very stiff to hard, moist, medium plasticity, 30-40% fine-grained sand, contains silt fines | | | | | | | | | | | | |
| | | | POORLY GRADED SAND (SP), grayish brown, dense, moist to wet, fine- to coarse-grained sand,<5% fines | | ▽ | | | | | | | | | | |
| 25 | | | | | | 68 | | | | | 15.3 | | | | |
| | 20 | | SANDY LEAN CLAY (CL), dark grayish brown, very stiff, wet, low plasticity, 30-40% fine-grained sand, contains silt fines | | | | | | | | | | | 3.5* | PP |
| | | | Bottom of boring at approximately 26 1/2 feet below ground surface. Groundwater encountered at approximately 25 feet during drilling. | | | | | | | | | | | | |

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# LOG OF BORING 1-B2

LATITUDE: 37.788478 LONGITUDE: -121.184351

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 16½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 48 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SILTY SAND (SM), brown to dark yellowish brown, loose, moist, fine- to medium-grained sand, >12% fines | | | 15 | | | | | | | | | |
| | 45 | | | | | 8 | | | | 14 | | | | | |
| 5 | | | | | | 10 | | | | | 3 | | | | |
| | 40 | | | | | | | | | | | | | | |
| | | | POORLY GRADED SAND WITH SILT (SP-SM), brown, medium dense, moist, fine- to medium-grained sand, 7-12% fines | | | | | | | | | | | | |
| 10 | | | | | | 15 | | | | | | | | | |
| | 35 | | POORLY GRADED SAND (SP), light gray, medium dense, moist, fine- to coarse-grained sand, <5% fines | | | | | | | | | | | | |
| 15 | | | | | | 16 | | | | | 3 | | | | |
| | | | Bottom of boring at approximately 16 1/2 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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# LOG OF BORING 1-B3

LATITUDE: 37.784902 LONGITUDE: -121.182502

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 50 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SILTY SAND (SM), brown, loose, moist, fine-grained sand, 25-35% fines | | | 14 | | | | 27 | | | | | |
| | | | | | | 7 | | | | | | | | | |
| 5 | 45 | | Grades to 20-30% fines | | | 8 | | | | | | | | | |
| | | | POORLY GRADED SAND (SP), brown to grayish brown, medium dense, moist, fine- to coarse-grained sand, <5% fines, contains gravel | | | | | | | | | | | | |
| 10 | 40 | | | | | 15 | | | | | | | | | |
| 15 | 35 | | Grades to light gray, dense | | | 35 | | | | | | | | | |
| | | | SILTY SAND (SM), grayish brown to brown, medium dense, moist, fine- to medium-grained sand, 15-25% fines, contains iron oxide | | | | | | | | | | | | |
| 20 | 30 | | LEAN CLAY WITH SAND (CL), grayish brown, stiff, moist, medium plasticity, 15-25% fine-grained sand, contains silt fines | | | 17 | | | | | | | | 1.5* | PP |
| | | | Bottom of boring at approximately 21 1/2 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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# LOG OF BORING 1-B4

LATITUDE: 37.790195 LONGITUDE: -121.179895

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 16½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 45 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SILTY SAND (SM), brown to grayish brown, loose to very loose, moist, fine- to medium-grained sand, 15-25% fines | | | 17 | | | | | | | | | |
| | | | Grades to fine- to coarse-grained sand, 20-30% fines | | | 4 | | | | | | | | | |
| 5 | 40 | | Grades to brown | | | 5 | | | | | | | | | |
| 10 | 35 | | Grades to 15-25% fines, contains gravel | | | 9 | | | | | | | | | |
| | | | POORLY GRADED SAND (SP), brown, medium dense, moist, fine- to medium-grained sand, <5% fines | | | | | | | | | | | | |
| 15 | 30 | | Grades to pale brown, fine- to coarse-grained sand | | | 14 | | | | | 9 | | | 3.5* | PP |
| | | | LEAN CLAY WITH SAND (CL), dark gray, very stiff, moist, medium plasticity, 15-25% fine-grained sand, contains silt fines | | | | | | | | | | | | |
| | | | Bottom of boring at approximately 16 1/2 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

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# LOG OF BORING 1-B5

LATITUDE: 37.793615 LONGITUDE: -121.186642

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 55 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SILTY SAND (SM), dark grayish brown, loose to very loose, moist, fine- to coarse-grained sand, 20-30% fines, contains gravel | | | 4 | | | | | 8 | | | | |
| | | | | | | 6 | | | | | | | | | |
| 5 | 50 | | Grades to brown | | | 8 | | | | | | | | | |
| | | | POORLY GRADED SAND (SP), brownish gray to grayish brown, medium dense, moist, fine- to coarse-grained sand, <5% fines, contains gravel | | | | | | | | | | | | |
| 10 | 45 | | | | | 11 | | | | | | | | | |
| | | | SILTY SAND (SM), brownish gray to brown, medium dense, moist, fine- to medium-grained sand, 15-25% fines | | | | | | | | | | | | |
| 15 | 40 | | POORLY GRADED SAND (SP), light gray, medium dense, moist, fine- to coarse-grained sand, <5% fines | | | 32 | | | | | 7 | | | | |
| | | | | | | | | | | | | | | | |
| 20 | 35 | | | | | 32 | | | | | | | | | |
| | | | Bottom of boring at approximately 21 1/2 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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# LOG OF BORING 1-B6

LATITUDE: 37.785467 LONGITUDE: -121.186473

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 16½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 51 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | | POORLY GRADED GRAVEL WITH SILT (SP-SM), brown to dark yellowish brown, medium dense, moist, fine- to medium-grained sand, >12% fines | | | 30 | | | | 12 | | | | | |
| | | | Grades to loose | | | 7 | | | | | | | | | |
| 5 | 45 | | Grades to yellowish brown, fine- to coarse-grained sand | | | 8 | | | | | 3 | | | | |
| | | | POORLY GRADED SAND (SP), brownish gray, loose, moist, fine- to coarse-grained sand, <5% fines | | | | | | | | | | | | |
| 10 | 40 | | | | | 8 | | | | | | | | | |
| 15 | 35 | | Grades to light yellowish brown, contains gravel | | | 12 | | | | | | | | | |
| | | | Bottom of boring at approximately 21 1/2 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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# LOG OF BORING 1-P1

LATITUDE: 37.78733 LONGITUDE: -121.18379

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 13 ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 50 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | SILTY SAND (SM), brown, moist, fine- to medium-grained sand, 15-25% fines | | | | | | | | | | | | |
| 5 | 45 | | Grades to yellowish brown | | | | | | | | | | | | |
| 10 | 40 | | POORLY GRADED SAND WITH SILT (SP-SM), brown to yellowish brown, moist, fine-grained sand, 7-12% fines | | | | | | | | | | | | |
| | | | Bottom of boring at approximately 13 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

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# LOG OF BORING 1-P2

LATITUDE: 37.786727 LONGITUDE: -121.186363

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 10 ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 51 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | | SILTY SAND (SM), brown, moist, fine- to medium-grained sand, 20-30% fines | | | | | | | | | | | | |
| 5 | 45 | | Grades to 25-35% fines | | | | | | | | | | | | |
| | | | Grades to 20-30% fines | | | | | | | | | | | | |
| 10 | | | Bottom of boring at approximately 10 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

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# LOG OF BORING 1-P3

LATITUDE: 37.792891 LONGITUDE: -121.187779

Prelim. Geotechnical Exploration
Yosemite Square
Manteca, California
18586.000.001

DATE DRILLED: 4/8/2021
HOLE DEPTH: Approx. 15 ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (WGS84): Approx. 48 ft.

LOGGED / REVIEWED BY: J.Sedore / ZAC
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

| Depth in Feet | Elevation in Feet | Sample Type | DESCRIPTION | Log Symbol | Water Level | Blow Count/Foot | Atterberg Limits: Liquid Limit | Atterberg Limits: Plastic Limit | Atterberg Limits: Plasticity Index | Fines Content (% passing #200 sieve) | Moisture Content (% dry weight) | Dry Unit Weight (pcf) | Shear Strength (psf) *field approximation | Unconfined Strength (tsf) *field approximation | Strength Test Type |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 48 | | SILTY SAND (SM), dark grayish brown, moist, fine- to medium-grained sand, 15-25% fines | | | | | | | | | | | | |
| 5 | 45 | | Grades to brown to grayish brown | | | | | | | | | | | | |
| 10 | 40 | | POORLY GRADED SAND (SP), brown, moist, fine- to coarse-grained sand, <5% fines, contains gravel | | | | | | | | | | | | |
| 15 | 35 | | Grades to light brownish gray | | | | | | | | | | | | |
| | | | Bottom of boring at approximately15 feet below ground surface. Groundwater not encountered during drilling. | | | | | | | | | | | | |

LOG - GEOTECHNICAL_SU+QU W/ ELEV 1-B1_B6, 1-P1_P3.GPJ ENGEO INC.GDT 4/29/21

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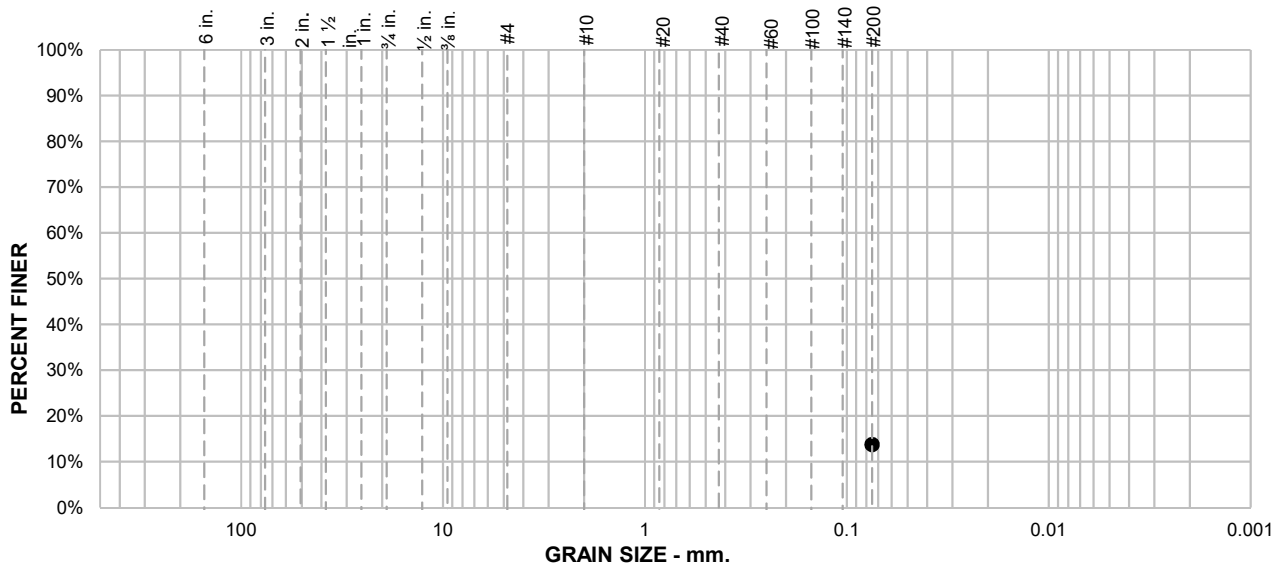
# APPENDIX B

## LABORATORY TEST DATA

# PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B




**SAMPLE ID:** 1-B2@3-4'

**DEPTH (ft):** 44259

| % +75mm | % GRAVEL | | % SAND | | | % FINES | |
|---|---|---|---|---|---|---|---|
| | COARSE | FINE | COARSE | MEDIUM | FINE | SILT | CLAY |
| | | | | | | 13.8 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---|---|---|---|
| #200 | 13.8 | | |

**SOIL DESCRIPTION**

See exploration logs

**ATTERBERG LIMITS**

PL = LL = PI =

**COEFFICIENTS**

$D_{90}$ = $D_{85}$ = $D_{60}$ =
$D_{50}$ = $D_{30}$ = $D_{15}$ =
$D_{10}$ = $C_u$ = $C_c$ =

**CLASSIFICATION**

USCS =

**REMARKS**

Soak time = 180 min
Dry sample weight = 583.7 g

* (no specification provided)

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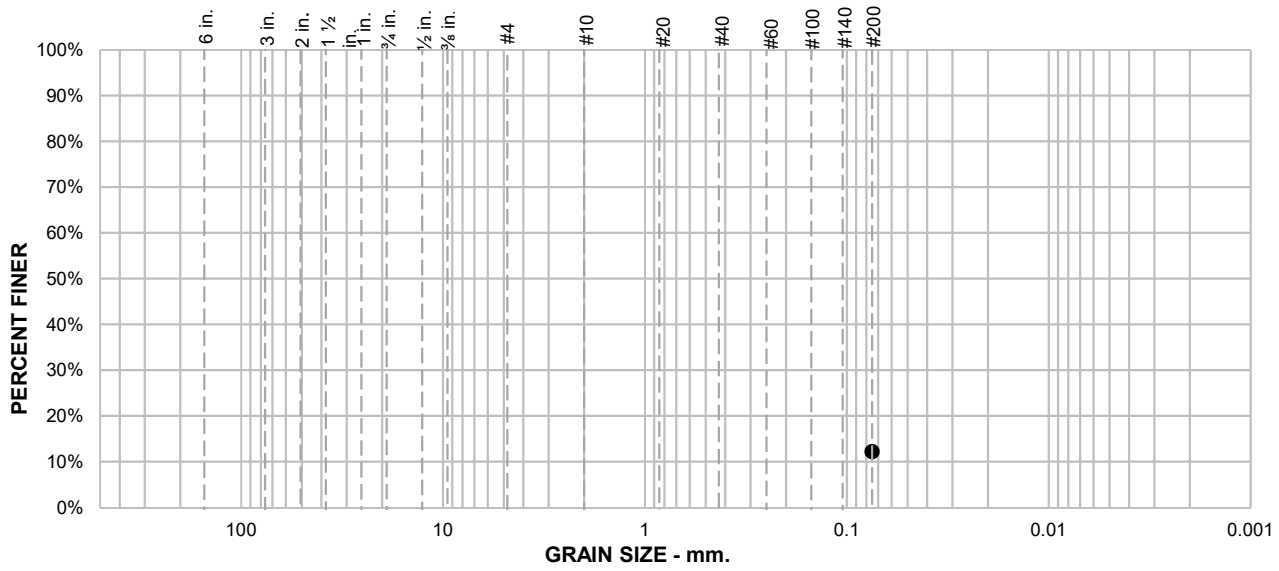
**CLIENT:** IL Housing Solutions, LLC
**PROJECT NAME:** Yosemite Square
**PROJECT NO:** 18586.000.001 PH001
**PROJECT LOCATION:** Manteca, CA
**REPORT DATE:** 4/27/2021
**TESTED BY:** V. Navarro
**REVIEWED BY:** K. Paul

# PARTICLE SIZE DISTRIBUTION REPORT

ASTM D1140, Method B




**SAMPLE ID:** 1-B6@2'

**DEPTH (ft):** 2

| % +75mm | % GRAVEL | | % SAND | | | % FINES | |
|---|---|---|---|---|---|---|---|
| | COARSE | FINE | COARSE | MEDIUM | FINE | SILT | CLAY |
| | | | | | | 12.2 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---|---|---|---|
| #200 | 12.2 | | |

**SOIL DESCRIPTION**

See exploration logs

**ATTERBERG LIMITS**

PL = LL = PI =

**COEFFICIENTS**

$D_{90}$ = $D_{85}$ = $D_{60}$ =
$D_{50}$ = $D_{30}$ = $D_{15}$ =
$D_{10}$ = $C_u$ = $C_c$ =

**CLASSIFICATION**

USCS =

**REMARKS**

Soak time = 190 min
Dry sample weight = 760.8 g

* (no specification provided)

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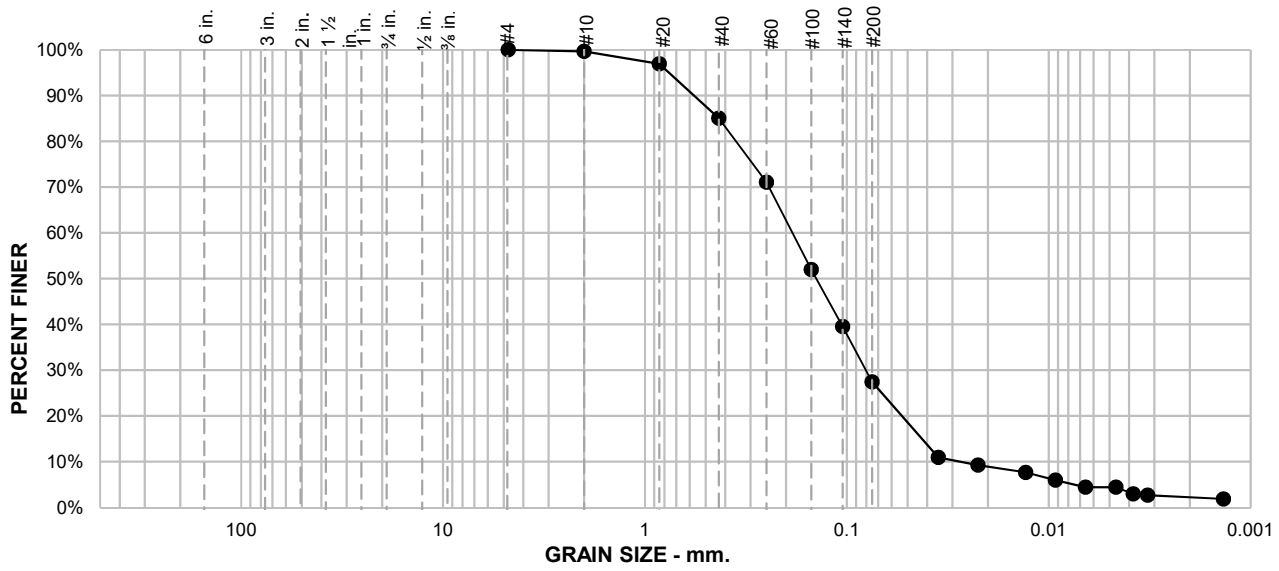
**CLIENT:** IL Housing Solutions, LLC
**PROJECT NAME:** Yosemite Square
**PROJECT NO:** 18586.000.001 PH001
**PROJECT LOCATION:** Manteca, CA
**REPORT DATE:** 4/26/2021
**TESTED BY:** V. Navarro
**REVIEWED BY:** K. Lecce

# PARTICLE SIZE DISTRIBUTION REPORT

ASTM D422




**SAMPLE ID:** 1-B3@2'

**DEPTH (ft):** 2

| % +75mm | % GRAVEL | | % SAND | | | % FINES | |
|---|---|---|---|---|---|---|---|
| | COARSE | FINE | COARSE | MEDIUM | FINE | SILT | CLAY |
| | | | 0.3 | 14.6 | 57.7 | 25.2 | 2.2 |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|---|---|---|---|
| #4 | 100.0 | | |
| #10 | 99.7 | | |
| #20 | 96.9 | | |
| #40 | 85.1 | | |
| #60 | 71.1 | | |
| #100 | 51.9 | | |
| #140 | 39.5 | | |
| #200 | 27.4 | | |
| 0.0352 mm. | 10.9 | | |
| 0.0224 mm. | 9.3 | | |
| 0.0130 mm. | 7.6 | | |
| 0.0093 mm. | 6.0 | | |
| 0.0066 mm. | 4.4 | | |
| 0.0047 mm. | 4.4 | | |
| 0.0038 mm. | 3.0 | | |
| 0.0032 mm. | 2.6 | | |
| 0.0014mm. | 1.9 | | |

**SOIL DESCRIPTION**

See exploration logs

**ATTERBERG LIMITS**

PL = LL = PI =

**COEFFICIENTS**

$D_{90}$ = 0.5706 mm $D_{85}$ = 0.4283 mm $D_{60}$ = 0.1861 mm

$D_{50}$ = 0.1420 mm $D_{30}$ = 0.0806 mm $D_{15}$ = 0.0425 mm

$D_{10}$ = 0.0273 mm $C_u$ = 6.82 $C_c$ = 1.28

**CLASSIFICATION**

USCS =

**REMARKS**

Silt/clay division of 0.002mm used

* (no specification provided)

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**CLIENT:** IL Housing Solutions, LLC

**PROJECT NAME:** Yosemite Square

**PROJECT NO:** 18586.000.001 PH001

**PROJECT LOCATION:** Manteca, CA

**REPORT DATE:** 4/27/2021

**TESTED BY:** V. Navarro

**REVIEWED BY:** K. Paul

# MOISTURE CONTENT REPORT
ASTM D2216

| SAMPLE ID | 1-B1 | 1-B1 | 1-B1 | 1-B1 | 1-B2 | 1-B2 | 1-B4 | 1-B5 |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | 2 | 10.5-11.5 | 21 | 25.5 | 5.5-6.5 | 15.5-16.5 | 15.5-16 | 2 |
| METHOD A OR B | B | B | B | B | B | B | B | B |
| MOISTURE CONTENT (%) | 7.1 | 5.5 | 19.1 | 15.3 | 3.3 | 2.6 | 8.6 | 8.0 |

| SAMPLE ID | 1-B5 | 1-B6 | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | 16 | 5.5-6.5 | | | | | | |
| METHOD A OR B | B | B | | | | | | |
| MOISTURE CONTENT (%) | 7.3 | 3.2 | | | | | | |

| SAMPLE ID | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | | | | | | | | |
| METHOD A OR B | | | | | | | | |
| MOISTURE CONTENT (%) | | | | | | | | |

| SAMPLE ID | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | | | | | | | | |
| METHOD A OR B | | | | | | | | |
| MOISTURE CONTENT (%) | | | | | | | | |

| SAMPLE ID | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | | | | | | | | |
| METHOD A OR B | | | | | | | | |
| MOISTURE CONTENT (%) | | | | | | | | |

| SAMPLE ID | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| DEPTH (ft.) | | | | | | | | |
| METHOD A OR B | | | | | | | | |
| MOISTURE CONTENT (%) | | | | | | | | |

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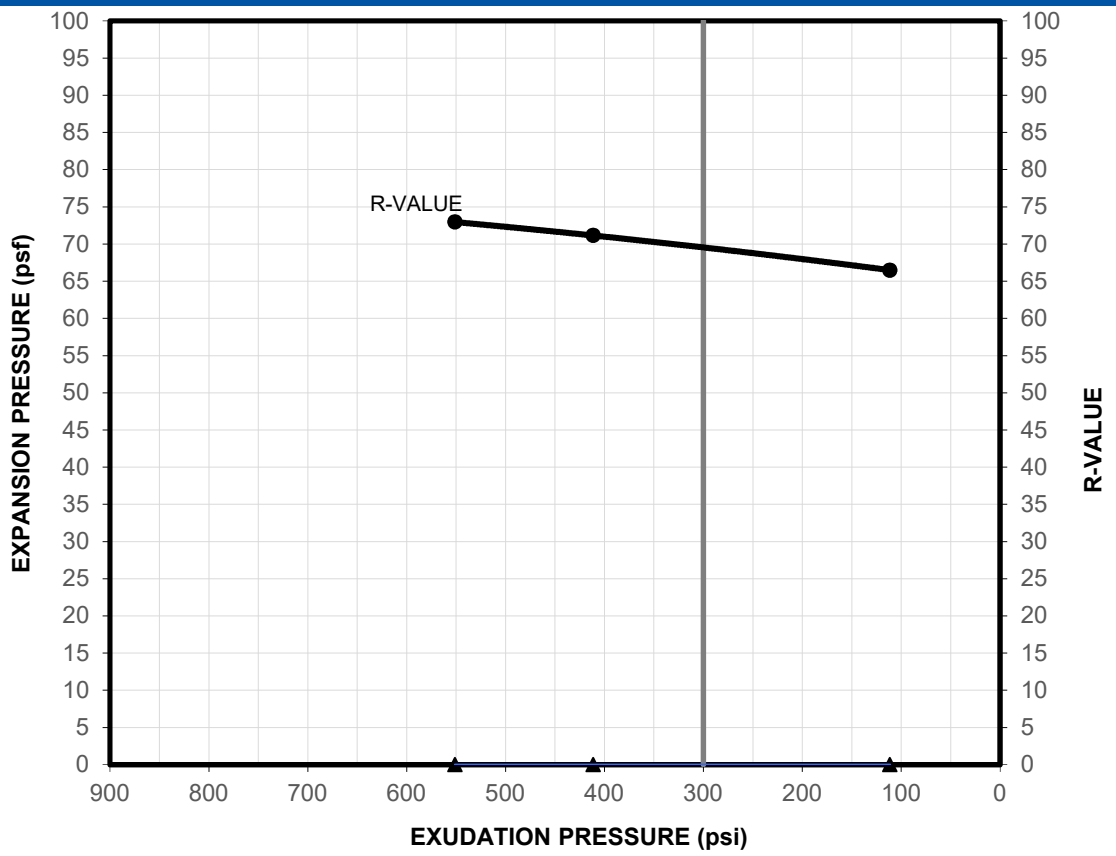
**CLIENT:** IL Housing Solutions, LLC
**PROJECT NAME:** Yosemite Square
**PROJECT NO:** 18586.000.001 PH001
**PROJECT LOCATION:** Manteca, CA
**REPORT DATE:** 4/23/2021
**TESTED BY:** V. Navarro
**REVIEWED BY:** K. Lecce

# R-VALUE TEST REPORT
CTM 301




| SAMPLE ID | MATERIAL DESCRIPTION | SAMPLE LOCATION |
|---|---|---|
| RV-01@0-0.5 | Site - Brown SAND with silt | Southern area of site |

| SPECIMENS | 1 | 2 | 3 |
|---|---|---|---|
| EXUDATION PRESSURE (psi) | 551 | 411 | 111 |
| EXPANSION PRESSURE (psf) | 0 | 0 | 0 |
| R-VALUE | 73 | 71 | 66 |
| MOISTURE CONTENT (%) | 11.6 | 12.8 | 13.5 |
| DRY DENSITY (pcf) | 108.7 | 107.9 | 106.9 |
| EXPANSION PRESSURE (psf) AT EXUDATION PRESSURE OF 300 psi | | 0 | |

| **R-VALUE** AT EXUDATION PRESSURE OF 300 psi | TEST RESULT |
|---|---|
| | **70** |

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**CLIENT:** IL Housing Solutions, LLC
**PROJECT NAME:** Yosemite Square
**PROJECT NO:** 18586.000.001 PH001
**PROJECT LOCATION:** Manteca, CA
**REPORT DATE:** 4/26/2021
**TESTED BY:** R. Montalvo
**REVIEWED BY:** M. Gilbert

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# APPENDIX D

## MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

# YOSEMITE SQUARE
MANTECA, CALIFORNIA

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## MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

SUBMITTED TO
Mr. Kevin Fryer
Integral Communities
888 San Clemente Drive, Suite 100
Newport Beach, CA 92660

PREPARED BY
ENGEO Incorporated

May 6, 2021

PROJECT NO.
18586.000.001

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Project No.
**18586.000.001**

May 6, 2021

Mr. Kevin Fryer
Integral Communities
888 San Clemente Drive, Suite 100
Newport Beach, CA 92660

Subject: Yosemite Square
Manteca, California

**MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT**

Dear Mr. Fryer:

ENGEO is pleased to present our modified phase I environmental site assessment of the subject property (Property), located in Manteca, California. The attached report includes a description of the site assessment activities, along with ENGEO's findings, opinions, and conclusions regarding the Property.

ENGEO has the specific qualifications based on education, training, and experience to assess the nature, history, and setting of the Property, and has developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312 and the American Standard Testing Method (ASTM) Practice E1527-13. We declare that, to the best of our professional knowledge and belief, the responsible charge for this study meets the definition of Environmental Professional as defined in Section 312.10 of 40 CFR Part 312 and ASTM E1527-13.

We are pleased to be of service to you on this project. If you have any questions concerning the contents of our report, please contact us.

Sincerely,

ENGEO Incorporated

Jennifer Knipper

Jeffrey A. Adams, PhD, PE

jk/jaa/dt

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**APPENDIX D** – Environmental Data Resources, Inc., Sanborn Map Report

**APPENDIX E** – Environmental Data Resources, Inc., City Directory

**APPENDIX F** – California Laboratory Services, Laboratory Analytical Report

**APPENDIX G** – Qualifications of Environmental Professional

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# EXECUTIVE SUMMARY

ENGEO conducted a modified phase I environmental site assessment for the property located at Austin Road in Manteca, California (Property). The Property is approximately 130 acres in area and is identified by Assessor's Parcel Numbers (APNs) 228-020-32, 228-020-33, 228-020-36, 228-020-37, and 228-020-40.

The Property is being utilized for the cultivation of almond orchards. The orchards contain mature and immature trees. A residential home is located it the eastern area of the Property adjacent to Austin Road. Review of historical records indicates that the Property has remained undeveloped land since 1914.

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was conducted to review site use and current conditions to check for the storage, use, production or disposal of hazardous or potentially hazardous materials and interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Review of historical records indicates that the Property had been used as agricultural land since at least 1937. Soil at the Property was analyzed for the presence of potential recalcitrant agricultural chemicals. None of the samples exhibited detectable concentrations of organochlorine pesticides (OCPs) or arsenic. Lead concentrations ranged from 2.6 to 13 milligrams per kilogram (mg/kg), which are below the current residential screening level of 80 mg/kg.

Based on the findings of this assessment, no Recognized Environmental Conditions (RECs), no historical RECs, and no controlled RECs were identified for the Property.

ENGEO has performed a modified phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312).

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. We identified the following data gaps during the preparation of this report.

- We did not receive a Preliminary Title Report for the Property for our review prior to publication of this report.
- We did not receive a completed Client-based environmental questionnaire prior to publication of this report.

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- We did not receive a completed Key Site Manager-based environmental questionnaire prior to publication of this report.

- The presence of the orchard limited access or obstructed a clear view of the Property in several locations during the reconnaissance.

- We did not view the interior of the residential structure nor could we access the immediate vicinity of the residential home/garage during our site reconnaissance.

The data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property.

This assessment has revealed no evidence of RECs in connection with the Property, and the Property is suitable for residential development. ENGEO recommends the following:

- Although we did not observe evidence or identify records pertaining to on-site domestic wells or septic systems, given the age and setting of the Property, it is possible functioning or unused, remnant systems remain in place. The current Property owner should confirm if these systems exist at the Property.

- We could not access the exteriors of the residential home and garage. Consideration should be given to sampling soil at the perimeter of these structures to determine if recalcitrant pesticides/termiticides or lead-based paints are present in surface soil.

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# 1.0 INTRODUCTION

## 1.1 PURPOSE OF PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of Integral Communities for the purpose of environmental due diligence during property acquisition. The objective of this modified phase I environmental site assessment is to identify Recognized Environmental Conditions (RECs) associated with the Property. As defined in the ASTM Standard Practice E1527-13, an REC is "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."

## 1.2 DETAILED SCOPE OF SERVICES

The scope of services performed included the following:

- A review of publicly available and practicably reviewable standard local, state, tribal, and federal environmental record sources.
- A review of publicly available and practicably reviewable standard historical sources, aerial photographs, fire insurance maps and physical setting sources.
- A reconnaissance of the Property to review site use and current conditions. The reconnaissance was conducted to check for the storage, use, production or disposal of hazardous or potentially hazardous materials.
- An agrichemical assessment of near-surface soil to address potential environmental concerns regarding the past agricultural use of the Property.
- Interviews with owners/occupants and public sector officials.
- Preparation of this report with our findings, opinions, and conclusions.

## 1.3 SITE LOCATION AND DESCRIPTION

The Property is located at Austin Road in Manteca, California (Figures 1 and 2). The approximately 130-acre Property is identified as (APNs) 228-020-32, 228-020-33, 228-020-36, 228-020-37, and 228-020-40. (Figure 3) and is currently consists of agricultural land and contains a residential structure in the eastern area adjacent to Austin Road.

## 1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

The Property is currently under cultivation with almond orchards. The orchards contain mature and immature trees. A residential home is located it the eastern area of the Property, adjacent to Austin Road. Adjoining properties consist of agricultural land to the east, south, and a portion of the north. A lot to the north is utilized as a commercial truck parking lot. California Highway 99 is located the west.

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## 1.5 SITE AND VICINITY CHARACTERISTICS

According to published topographic maps, the Property ranges in elevation from approximately 52 feet above mean sea level (msl) in the south to approximately 48 feet above msl to the north. Review of the CGS Geologic Map of the San Francisco-San Jose Quadrangle (Wagner, Bortugno, and McJunkin, 1991) found that the Property is underlain by Holocene dune sand (Qs). The Holocene dune sand is described as eolian sand, silt, and clay.

Geocheck – Physical Setting Source Summary of the Environmental Data Resources, Inc. (EDR) report (Appendix A) indicated 6 Federal United States Geological Survey (USGS) and 33 State wells located within 1 mile of the Property. Well Number 002S007E02M002M is mapped approximately 0.4 mile east of the Property, and one groundwater level measurement is reported for this well. Groundwater was observed at approximately 16.5 feet below the ground surface. Well Number 002S007E03E002M is mapped approximately 0.6 mile west of the Property, and one groundwater level measurement is reported for this well. Groundwater was observed at approximately 30 feet below the ground surface. Well Number 002S007E03E001M is mapped approximately 0.7 mile west of the Property, and one groundwater level measurement is reported for this well. Groundwater was observed at approximately 30 feet below the ground surface. Well Number 001S007E34R001M is mapped approximately 0.8 mile northeast of the Property, and one groundwater level measurement is reported for this well. Groundwater was observed at approximately 19 feet below the ground surface.

We reviewed the Department of Water Resources On-line Water Data Library for depth to water in the vicinity of the Property. The website identified nine wells within 1 mile of the Property. Depths to groundwater are shown in the table below.

**TABLE 1.5-1: Local Groundwater Conditions**

| WELL STATION IDENTIFICATION | PROXIMITY TO PROPERTY | REPORTED DEPTH TO GROUNDWATER |
|---|---|---|
| 378071N1211991W001 | 1 mile northwest | 42 feet |
| 378059N1211878W001 | 0.6 mile northwest | Not reported |
| 377984N1211740W001 | 0.3 mile northeast | 52 feet |
| 377980N1211688W001 | 0.4 mile northeast | 51 feet |
| 377971N1211625W001 | 0.5 mile northeast | 55 feet |
| 377843N1211700W001 | 0.4 mile southeast | 51 feet |
| 377708N1211790W001 | 1 mile south | 46 to 48 feet |
| 377796N1211880W001 | 0.7 mile south | 48 feet |
| 377749N1211953W001 | 1 mile south | 8 feet |

We reviewed EnviroStor, a website maintained by the State of California Department of Toxic Substances Control, and GeoTracker, a website maintained by the State of California Water Resources Control Board, for nearby facilities with records that include depth to groundwater measurements. The following information was obtained regarding local groundwater conditions.

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**TABLE 1.5-2: Local Groundwater Conditions**

| PROXIMITY TO PROPERTY | REPORTED DEPTH TO GROUNDWATER | REPORTED GROUNDWATER FLOW DIRECTION |
|---|---|---|
| 1 mile | Approximately 15 to 20 feet | North/northwest |

The site-specific depth to groundwater and direction of groundwater flow was not determined as part of this assessment. Fluctuations in groundwater levels may occur seasonally and over a period of years due to variations in precipitation, temperature, irrigation and other factors.

We reviewed the Department of Conservation, Geologic Energy Management (CalGEM), formerly the Department of Conservation, Division of Oil, Gas, and Geothermal Resources (DOGGR), website and map database to determine if any historic oil and/or gas wells were located within the Property. One well was mapped within 1 mile of the Property and is listed as plugged.

# 2.0 RECORDS REVIEW

## 2.1 PROPERTY RECORDS

### 2.1.1 Title Report/Ownership

The Title Report lists recorded land title detail, ownership fees, leases, land contracts, easements, liens, deficiencies, and other encumbrances attached to or recorded against a subject property. Laws and regulations pertaining to land trusts vary from state to state and the detail of information presented in a Title Report can vary greatly by jurisdiction. As a result, ENGEO utilizes a Title Report, when provided to us, as a supplement to other historical record sources.

We did not receive a Preliminary Title Report for the Property for our review prior to publication of this report.

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## 2.2 HISTORICAL RECORD SOURCES

The purpose of the historical record review is to develop a history of the previous uses or occupancies of the Property and surrounding area in order to identify those uses or occupancies that are likely to have led to RECs on the Property.

### 2.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps

Historical USGS topographic maps, aerial photographs, and Sanborn Fire insurance maps were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices B and C. No Sanborn maps were identified for the Property. A copy of the Sanborn Map search report is presented in Appendix D.

**TABLE 2.2.1-1: Historical Review Summary**

| HISTORIC MAP/PHOTOGRAPH | YEARS |
|---|---|
| Topographic Maps | 1914, 1952, 1968, 1976, 1987, 1991, 1994, 2012 |
| Aerial Photographs | 1937, 1957, 1963, 1968, 1975, 1982, 1993, 2006, 2009, 2012, 2016 |
| Sanborn Maps | N/A |

The earliest historical image, the 1914 topographical map, depicts the Property as undeveloped, open space, with a north-south-trending road along the eastern boundary. Two small structures are located immediately east of the Property boundary. The surrounding area also appears as predominantly undeveloped open space, with several north-south and east-west-trending roads with many small structures depicted surrounding the Property. The Southern Pacific Railroad – Fresno Line is shown approximately 0.5 mile to the southwest of the Property. Catta School is depicted approximately 0.5 mile northeast of the Property.

The 1937 aerial photograph shows what appears to be an orchard in the southern and northern portions of the Property. The remaining portions of the Property appear to be used for dry farming. Two residences are shown immediately east of the Property boundary. A northwest-southeast trending drainage is shown southwest of the Property.

The 1952 topographical map depicts an orchard in the southern portion of the Property. The area surrounding the Property appears to be orchards. A disposal reservoir is located approximately 0.25 mile west of the Property. Highway 99 is mapped parallel to the rail line, southwest of the Property. A secondary highway trending east-west is mapped approximately 0.25 mile north of the Property. The City of Manteca is shown as a densely residential area located northwest of the Property.

The 1957 aerial photograph depicts the Property under cultivation for dry farming and orchards. The surrounding area remains largely unchanged.

In the 1963 aerial photograph, the Property remains largely unchanged. Highway 99 is located along the western Property boundary. A disposal reservoir is visible immediately southwest of the Property.

The Property remains relatively unchanged in the 1968 topographic map. Highway 99 is located along the rail line, southwest of the Property, before branching off north towards the Property and along the western Property boundary. The area immediately west of the Property, east of the disposal reservoir, is shown as a densely residential area. The City of Manteca has expanded to the southeast, towards the Property. In the 1968 aerial photograph, the Property and surrounding area remains largely unchanged.

In the 1975 aerial photograph, the Property remains largely unchanged. A trailer park is located immediately north of the Property.

The Property remains relatively unchanged in the 1976 topographic map. There is a trailer park located immediately north of the Property. There is additional residential development located north and northeast of the Property.

In the 1982 aerial photograph, the Property remains largely unchanged. The highway 99/120 interchange is located immediately southwest of the Property.

The Property remains relatively unchanged in the 1987 topographic map. There is additional residential development west of the Property. The Highway 120/99 interchange is located immediately southwest of the Property.

The Property remains relatively unchanged in the 1991 and 1994 topographic maps and the 1993 aerial photograph. The surrounding area also remains largely unchanged.

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In the 2006 aerial photograph, orchards are present throughout the Property. There are industrial buildings located west/southwest of the Property. Additional residential development is present northeast of the Property.

In the 2009 and 2012 aerial photographs, the Property and surrounding area appear relatively unchanged. The 2012 topographical map no longer depicts the two small structures along the eastern boundary of the Property. There is additional residential development located southwest of the Property. In the 2016 aerial photograph, the Property and surrounding area appear relatively unchanged.

### 2.2.2 City Directory

City Directories, published since the 18th century for major towns and cities, list the name of the resident or business associated with each address. A city directory search conducted by EDR is located in Appendix E.

## 2.3 ENVIRONMENTAL RECORD SOURCES

EDR performed a search of federal, tribal, state, and local databases regarding the Property and nearby properties. Details regarding the databases searched by EDR are provided in Appendix A. A list of the facilities documented by EDR within the approximate minimum search distance of the Property is provided below.

### 2.3.1 Environmental Records

#### 2.3.1.1 Subject Property

The Property is not listed on Environmental Record source databases.

#### 2.3.1.2 Other Properties

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources.

**TABLE 2.3.1.2-1: Summary of Environmental Record Source Database Listings**

| FACILITY | STREET | DATABASES |
|---|---|---|
| ALBERT V CARDOZA | 18816 SO AUSTIN RD | HIST UST |
| J EPOTTER | 19362 S AUSTIN RD | HIST UST |
| RON PALMER/NORMA GREY | 1830 E YOSEMITE AVE SPC 82 | RCRA NONGEN / NLR |
| JOHN N ARETAKIS FARMS | 18561 SO AUSTIN RD | HIST UST |
| THE HOME DEPOT NO 1006 | 250 COMMERCE AVE | RCRA-SQG,FINDS,ECHO |
| THE HOME DEPOT STORE #1006 | 250 COMMERCE AVE | CERS HAZ WASTE,CERS |
| NESTLE DREYERS ICE CREAM | 1351 DUPONT CT | RCRA NONGEN / NLR |
| DREYERS GRAND ICE CREAM | 1351 DUPONT CT | CERS HAZ WASTE,CERS |
| FORD MOTOR CO SACTO HV / HC CTR | 1260 PHOENIX DR | CERS HAZ WASTE,CERS |

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| FACILITY | STREET | DATABASES |
|---|---|---|
| FORD MOTOR CO-SACRAMENTO PARTS DIST CTR | 1260 PHOENIX DR | RCRA NONGEN / NLR |
| MANTECA TRAILER & CAMPER INC | 1990 E YOSEMITE AVE | UST |
| MANTECA TRAILER | 1990 E YOSEMITE | SWEEPS UST,CA FID UST |
| STATEWIDE PETROLEUM INC DBA YOSEMITE 76 | 1700 E YOSEMITE AVE | HWTS,HIST UST,HAZNET |
| UNION #5417 | 1700 YOSEMITE AVE E | LUST,CORTESE,HIST CORTESE,CERS |
| MANTECA VALERO | 1700 E YOSEMITE AVE | UST |
| MANTECA VALERO | 1700 E YOSEMITE AVE | CERS HAZ WASTE,CERS TANKS,CERS |
| UNION OIL SS# 5417 | 1700 E YOSEMITE AVE | HIST UST |
| UNOCAL #5417 | 1700 E YOSEMITE AVE | SWEEPS UST,CA FID UST,EMI,CERS |
| BONFIGLIO B | 18400 S AUSTIN RD | HIST UST |
| VINTAGE POOL SERVICE AND MORE | 1780 E YOSEMITE AVE | HWTS,CERS HAZ WASTE,CERS |
| VINTAGE POOL SERVICE AND MORE | 1780 E YOSEMITE AVE | RCRA NONGEN / NLR |
| STAPLES THE OFFICE SUPERSTORE #1341 | 249 COMMERCE AVE | CERS HAZ WASTE |
| STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341 | 249 COMMERCE AVE | RCRA NONGEN / NLR |
| MANTECA TRAILER | 1890 E YOSEMITE AVE | HIST UST |
| MANTECA TRAILER | 1890 E YOSIMITE | HIST UST |
| ARCO #6020 CASE # | 1711 YOSEMITE | LUST,CORTESE,HIST CORTESE,CERS |
| ARCO #6020 CASE #2 | 1711 YOSEMITE AVE E | LUST |
| ABF FREIGHT | 2427 YOSEMITE AVE | HWTS,LUST,CORTESE,HAZNET,HIST CORTESE,CERS |
| FRANK'S EXXON #2 | 1399 E YOSEMITE | LUST,SWEEPS UST,CA FID UST,CORTESE,HIST CORTESE |
| GRANDA'S RECYCLING | 1393 E YOSEMITE AVE | SWRCY |
| LINEAGE LOGISTICS | 730 SPRECKELS AVENUE | CPS-SLIC,CERS |
| FORWARD DISPOSAL | 19999 S. AUSTIN RD | DEED |
| WOODWARD ANNEX SITE | WOODWARD AVENUE/SPRECKELS ROAD | ENVIROSTOR,SCH,CERS |

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- Albert V Cardoza is listed in the historical underground storage tank (HIST UST) database. An approximately 475-gallon UST was installed in 1973. The UST was used to store regular motor vehicle fuel/waste oil. There are no records for removal.

- Arco #6020 Case #2 is listed in the leaking underground storage tank (LUST), hazardous waste and substances sites (Cortese and Historic Cortese), and in the California Environmental Reporting System (CERS) databases. Three gasoline USTs were removed in 1999. Soil samples beneath the UST pit, dispenser, and piping exhibited petroleum hydrocarbon impacts. Impacted soils were overexcavated from beneath the USTs, dispensers, and piping. Groundwater monitoring wells were installed in 2001 and 2003. All constituents were reported below detection limits with the exception of one MTBE detection, which was below the maximum contaminant limit. The case was closed in 2006.

- Union #5417 is listed as in the LUST, Cortese, Historic Cortese, and CERS databases. A leak was discovered and reported in 1998. Potential contaminants of concern included gasoline. The case was closed in 1999. No additional information was available.

Based on the distances to the identified database sites, regional topographic gradient, and the EDR findings, it is unlikely that the above-stated database sites pose an environmental risk to the Property. Properties that are on the "Orphan Summary" list appear to be located beyond the ASTM recommended radius search criteria.

## 2.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property.

**TABLE 2.4-1: Regulatory Agency Records**

| NAME OF AGENCY | RECORDS REVIEWED |
|---|---|
| Lathrop-Manteca Fire Department | We contacted the Lathrop-Manteca Fire Department for records relating to the Property. No records were identified for the Property. |
| San Joaquin County Department of Environmental Health | We reviewed the San Joaquin County Department of Environmental Health database for records relating to the Property. A 1992 application for grading approximately 63 acres of the almond orchard at 19207 Austin Road was found. A push-point boring permit was submitted for 19207 Austin Road in 2012. In addition, a permit for five geotechnical borings at 1992 East Yosemite Avenue was found. |
| City of Manteca Clerk | We contacted the City of Manteca Clerk for records relating to the Property. No records were identified for the Property. |
| San Joaquin County Assessor's Office | We reviewed the San Joaquin County GIS portal and confirmed the Property APNs. |
| California State Water Resources Control Board | We used the California State Water Resources Control Board online database, GeoTracker, to identify records associated with the Property. No listings for the Property were identified in the GeoTracker database. |
| Department of Toxic Substances Control | We used the Department of Toxic Substances Control online database, EnviroStor, to identify records associated with the Property. No listings for the Property were identified in the EnviroStor database. |

## 2.5 INDOOR AIR QUALITY

An evaluation of indoor air quality, mold, or radon was not included as part of the contracted scope of services. The California Department of Public Health has conducted studies of radon risks throughout the state, sorted by zip code. Results of the studies indicate that eight tests were conducted within the Property zip code, with none of the tests exceeding the current EPA action level of 4 picocuries per liter (pCi/L)[1].

[1] California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

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In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*); there are no potential petroleum hydrocarbon sources for vapor intrusion within 1/10 mile of the Property or volatile organic compound (VOCs) sources within 1/3 mile of the Property.

# 3.0 SITE RECONNAISSANCE

## 3.1 METHODOLOGY

ENGEO conducted a reconnaissance of the Property on April 7, 2021. The reconnaissance was performed by Jason Sedore, a Staff Geologist of ENGEO. The Property was viewed for hazardous materials storage, superficial staining or discoloration, debris, stressed vegetation, or other conditions that may be indicative of potential sources of soil or groundwater contamination. The Property was also checked for evidence of fill/ventilation pipes, ground subsidence, or other evidence of existing or preexisting underground storage tanks. Photographs taken during the site reconnaissance are presented in Figure 4.

The presence of the orchard limited access or obstructed a clear view of the Property in several locations during the reconnaissance. We did not observe the area immediately adjacent to the residential structure or garage.

## 3.2 EXTERIOR OBSERVATIONS

The following table summarizes our observations during the reconnaissance:

**TABLE 3.2-1: Exterior Site Observations**

| FEATURE TYPE | OBSERVATIONS |
|---|---|
| Structures | An existing residential home and garage were observed throughout the Property. |
| Hazardous Substances and Petroleum Products in Connection with Identified Uses | No hazardous substances or petroleum products were observed within the Property during the site reconnaissance. |
| Storage Tanks (underground and above-ground) | Two above-ground storage tanks were observed within the Property. One tank was labeled as containing sulfuric acid and the other was of unknown use. No evidence of existing underground storage tanks was observed during the site reconnaissance. No evidence of staining or releases were observed at these tanks. |
| Odors | No odors indicative of hazardous materials or petroleum material impacts were noted at the time of the reconnaissance. |
| Pools of Potentially Hazardous Liquid | No pools of potentially hazardous liquid were observed within the Property at the time of our reconnaissance. |
| Drums | No drums were observed on the Property at the time of the reconnaissance. |
| Polychlorinated Biphenyls (PCBs) Containing Equipment | No potential PCB-containing equipment, including transformers, were observed within the Property during our site reconnaissance. We observed pole-mounted transformers along Austin Road, outside of the Property. The transformers did not show evidence of leaks. |
| Hazardous Substances and Petroleum Product Containers | No hazardous substance or petroleum product containers were observed on the Property at the time of our reconnaissance. |

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| FEATURE TYPE | OBSERVATIONS |
|---|---|
| Pits, Ponds, and Lagoons | No pits, ponds, or lagoons were observed within the Property at the time of our reconnaissance. |
| Stained Soil/Pavement | Other than intermittent minor motor oil staining in select locations, no stained soil or pavement was observed within the Property at the time of our reconnaissance. |
| Stressed Vegetation | No signs of stressed vegetation were observed on the Property at the time of our reconnaissance. |
| Solid Waste/Debris | Several minor, intermittent piles of solid waste were observed at the subject Property. The piles consisted of household and consumer debris. Additionally, several burn piles associated with orchard maintenance were observed within the Property. |
| Stockpiles/Fill Material | Several stockpiles or fill material was observed on the Property during the reconnaissance. |
| Wastewater | No wastewater conveyance systems were observed at the Property during the reconnaissance. |
| Wells | No evidence of wells were found within the Property during our site reconnaissance. |
| Septic Systems | No evidence of septic systems were found within the Property during our site reconnaissance. |

### 3.1 INTERIOR OBSERVATIONS

We did not observe the interior of the structures at the Property.

### 3.2 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

An asbestos, lead, and PCB-containing building material survey was not conducted as part of this assessment. Given the age of the existing structures, it is conceivable that asbestos, lead, and PCB-containing materials may exist within the structures.

## 4.0 INTERVIEWS

We did not receive a completed Client-based or Key Site Manager-based environmental questionnaire prior to publication of this report.

## 5.0 AGRICHEMICAL IMPACT ASSESSMENT

Review of historical records indicates that the Property has been used as agricultural land since at least 1937. Since the Property was historically used for agricultural activities, an agrichemical assessment of the surface soil was conducted to evaluate the potential for residual concentrations of agricultural chemicals.

### 5.1 SOIL SAMPLING

Soil samples were collected on April 7, 2021, from 100 locations across the Property (Figure 2). Soil samples were collected from 0 to 6 inches below the surface of the existing grade. The 100 soil samples were collected using 4-ounce, pre-cleaned glass gars. Upon collection of samples, a sample label was placed on the sample including a unique sample number, sample location, and time/date collected. The soil samples were submitted under documented chain-of-custody to California Laboratory Services, a State-certified laboratory in Rancho

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Cordova, California. The 100 samples were composited by the laboratory into 25 4-point composite samples. The 25 composite samples were analyzed for organochlorine pesticides (OCPs) (EPA Method 8081). Additionally, 25 discrete samples were analyzed for total lead and arsenic (ICP/MS 6020 and EPA Method 6020).

### 5.2 ANALYTICAL RESULTS

The reported concentrations for OCPs and arsenic are all non-detect with respect to laboratory reporting limits. The reported lead concentrations are below the applicable USEPA and CAL-EPA screening levels for residential soil.

The following is a summary of the laboratory results.

- None of the samples exhibited detectable concentrations of OCPs or arsenic.
- Lead concentrations ranged from 2.6 to 13 milligrams per kilogram (mg/kg), which are below the current residential screening level of 80 mg/kg.

The laboratory report is presented in its entirety in Appendix F.

## 6.0 FINDINGS AND CONCLUSIONS

This assessment included a review of local, state, tribal, and federal environmental record sources, standard historical sources, aerial photographs, fire insurance maps and physical setting sources. A reconnaissance of the Property was completed to review site use and current conditions to check for the storage, use, production, or disposal of hazardous or potentially hazardous materials and to conduct written/oral interviews with persons knowledgeable about current and past site use.

The site reconnaissance and records review did not find documentation or physical evidence of soil or groundwater impairments associated with the use or past use of the Property. A review of regulatory databases maintained by county, state, tribal, and federal agencies found no documentation of hazardous materials violations or discharge on the Property and did not identify contaminated facilities within the appropriate American Society for Testing and Materials (ASTM) search distances that would reasonably be expected to impact the Property.

Review of historical records indicates that the Property had been used as agricultural land since at least 1937. Soil at the Property was analyzed for the presence of potential recalcitrant agricultural chemicals.

None of the samples exhibited detectable concentrations of OCPs or arsenic. Lead concentrations ranged from 2.6 to 13 mg/kg, which are below the current residential screening level of 80 mg/kg.

Based on the findings of this assessment, no RECs, no historical RECs, and no controlled RECs were identified for the Property.

ENGEO has performed a modified phase I environmental site assessment in general conformance with the scope and limitations of ASTM E1527-13 and the standards and practices of the All Appropriate Inquiry – Final Rule (40 Code of Federal Regulations Part 312).

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It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC.

This assessment has revealed no evidence of RECs in connection with the Property, and the Property is suitable for residential development. ENGEO recommends the following:

- Although we did not observe evidence or identify records pertaining to on-site domestic wells or septic systems, given the age and setting of the Property, it is possible functioning or unused, remnant systems remain in place. The current Property owner should confirm if these systems exist at the Property.

- We could not access the exteriors of the residential home and garage. Consideration should be given to sampling soil at the perimeter of these structures to determine if recalcitrant pesticides/termiticides or lead-based paints are present in surface soil.

# 7.0 LIMITATIONS

## 7.1 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE

No significant assumptions or deviations from ASTM standard practice were made.

## 7.2 OPINIONS AND DATA GAPS

It is our opinion that the findings of this study are based on a sufficient level of information obtained during our contracted scope of services to render a conclusion as to whether additional appropriate investigation is required to identify the presence or likely presence of a REC. We identified the following data gaps during the preparation of this report.

- We did not receive a Preliminary Title Report for the Property for our review prior to publication of this report.

- We did not receive a completed Client-based environmental questionnaire prior to publication of this report.

- We did not receive a completed Key Site Manager-based environmental questionnaire prior to publication of this report.

- The presence of the orchard limited access or obstructed a clear view of the Property in several locations during the reconnaissance.

- We did not view the interior of the residential structure nor could we access the immediate vicinity of the residential home/garage during our site reconnaissance.

The data gaps identified during this process do not affect the conclusions as to the presence or lack of presence of RECs at the Property.

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## 7.3 LIMITATIONS AND EXCEPTIONS OF ASSESSMENT

The professional staff at ENGEO strives to perform its services in a proper and professional manner with reasonable care and competence but is not infallible. The recommendations and conclusions presented in this report were based on the findings of our study, which were developed solely from the contracted services. The findings of the report are based in part on contracted database research, out-of-house reports, and personal communications. The opinions formed by ENGEO are based on the assumed accuracy of the relied upon data in conjunction with our relevant professional experience related to such data interpretation. ENGEO assumes no liability for the validity of the materials relied upon in the preparation of this report.

This document must not be subject to unauthorized reuse; that is, reuse without written authorization of ENGEO. Such authorization is essential because it requires ENGEO to evaluate the document's applicability given new circumstances, not the least of which is passage of time. The findings from a phase I environmental site assessment are valid for one year after completion of the report. Updates of portions of the assessment may be necessary after a period of 180 days after completion.

This modified phase I environmental site assessment is not intended to represent a complete soil, soil gas, or groundwater characterization, nor define the depth or extent of soil, soil gas, or groundwater contamination. It is intended to provide an evaluation of potential environmental concerns associated with the use of the Property. A more extensive assessment that would include additional subsurface exploration with laboratory testing of soil, soil gas, and groundwater samples could provide more definitive information concerning site-specific conditions. If additional assessment activities are considered for the Property and if other entities are retained to provide such services, ENGEO cannot be held responsible for any and all claims arising from or resulting from the performance of such services by other persons or entities. ENGEO can also not be held responsible from any and all claims arising or resulting from clarifications, adjustments, modifications, discrepancies or other changes necessary to reflect changed field or other conditions.

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## 7.4 SPECIAL TERMS AND CONDITIONS

ENGEO has prepared this report for the exclusive use of our client, Integral Communities. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the Client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

Laboratory testing of soil gas or groundwater samples was not within the scope of the contracted services. The assessment did not include an asbestos survey, an evaluation of lead-based paint, an inspection of light ballasts for polychlorinated biphenyls (PCBs), or a mold survey. A radon evaluation was not performed.

This report is based upon field and other conditions discovered at the time of preparation of ENGEO's assessment. Visual observations referenced in this report are intended only to represent conditions at the time of the reconnaissance. ENGEO would not be aware of site contamination, such as dumping and/or accidental spillage, that occurred subsequent to the reconnaissance conducted by ENGEO personnel.

# SELECTED REFERENCES

Wagner, D.L., Bortugno, E.J., and McJunkin, R.D., 1991, Geologic map of the San Francisco-San Jose quadrangle, California Division of Mines and Geology, Regional Geologic Map 5A, scale 1:250,000.

Google Maps (http://maps.google.com)

California Department of Water Resources (http://www.water.ca.gov/waterdatalibrary/)

California Department of Public Health – Radon Program– (https://www.cdph.ca.gov/Programs/CEH/DRSEM/CDPH%20Document%20Library/EMB/Radon/Radon%20Test%20Results.pdf).

California Geologic Energy Management Division (CalGEM) (https://www.conservation.ca.gov/calgem)

CalGEM Well Finder (https://maps.conservation.ca.gov/doggr/wellfinder/#openModal/-118.94276/37.12009/6)

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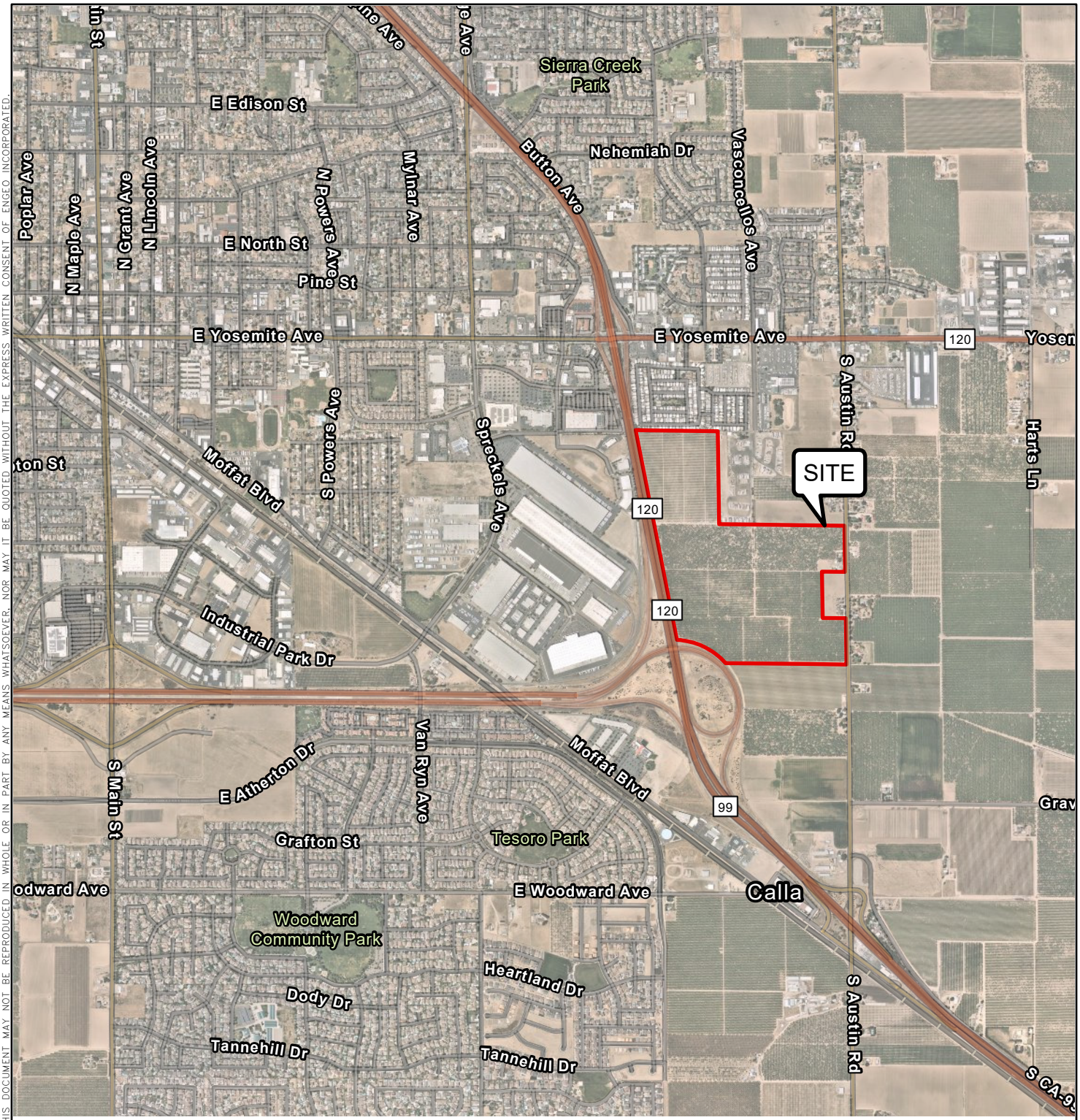
## FIGURES

**FIGURE 1: Vicinity Map**
**FIGURE 2: Site Plan**
**FIGURE 3: Assessor's Parcel Map**
**FIGURE 4: Site Photographs**




N

0 1,000 2,000

FEET

BASEMAP SOURCE: NEARMAP MAPPING SERVICE 7/11/2020

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# VICINITY MAP

YOSEMITE SQUARE

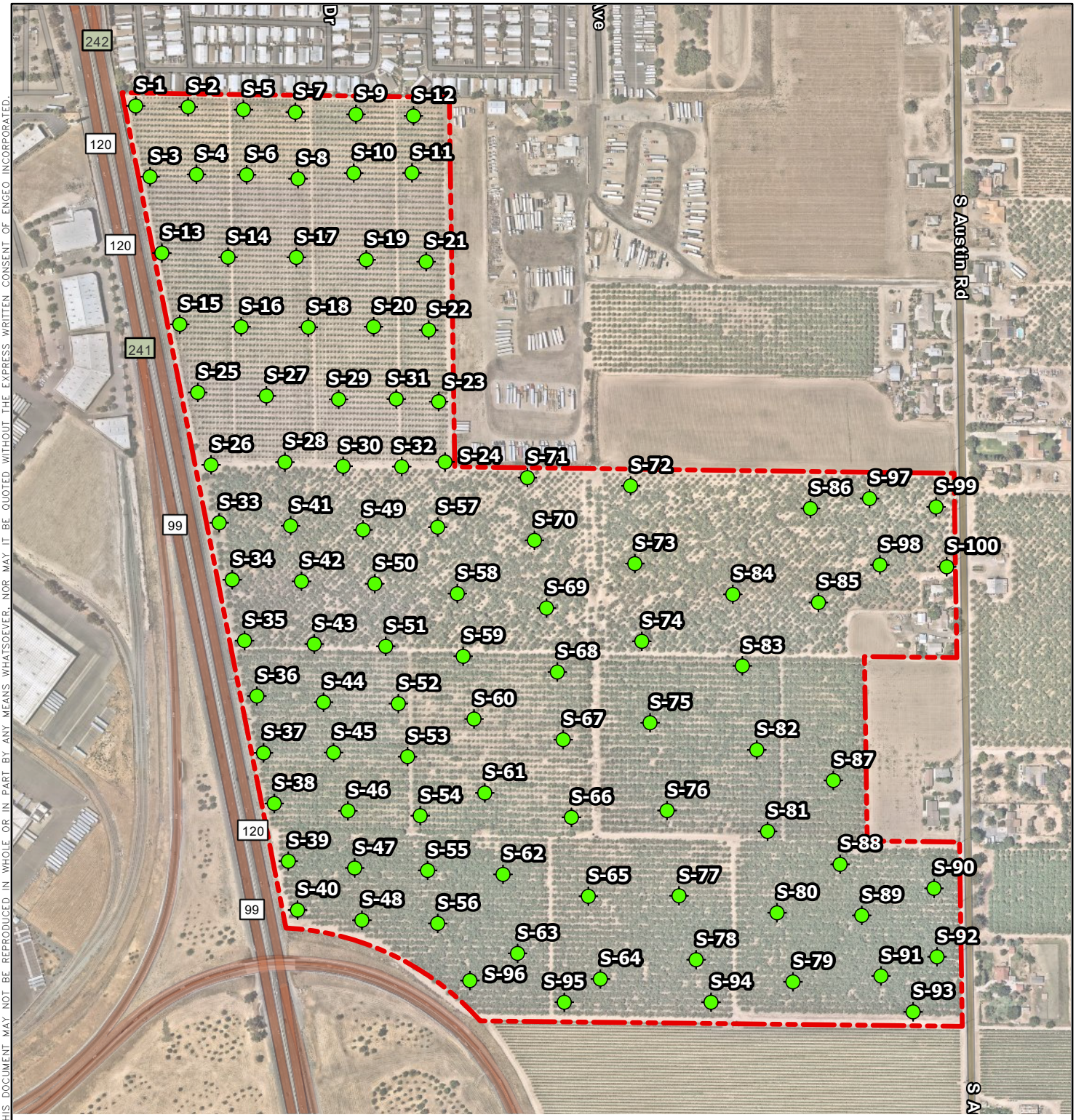
MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: SPM |

FIGURE NO. 1

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\ENVIRONMENTAL\ESA\YOSEMITE SQUARE.APRX
LAYOUT: VICINITY USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR




## EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE

AGRICULTURE SAMPLE (ENGEO, 2021)

N

0 250 500

FEET

BASEMAP SOURCE: NEARMAP MAPPING SERVICE 7/11/2020

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# SITE PLAN

YOSEMITE SQUARE

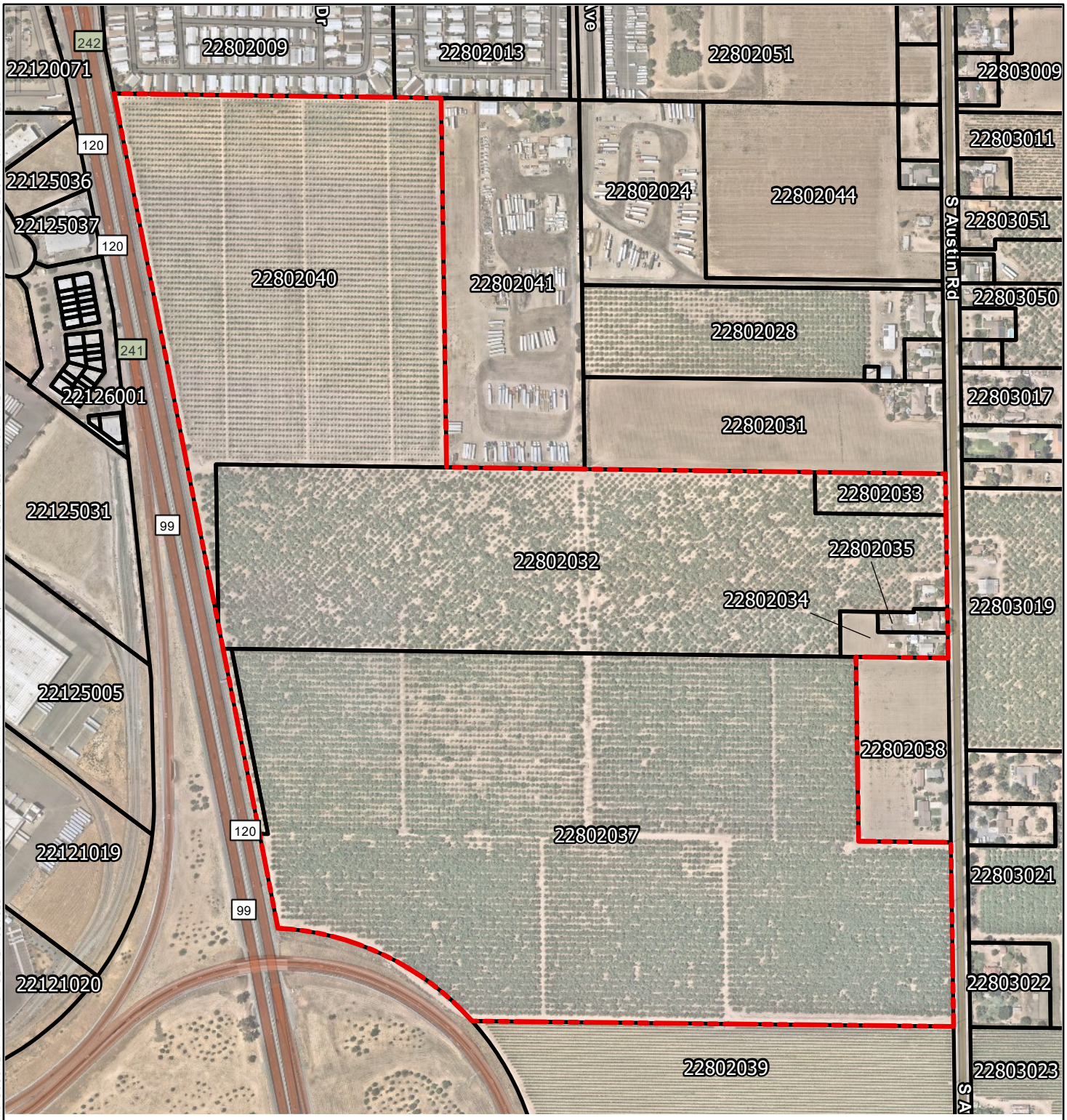
MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: SPM |

FIGURE NO. 2

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\ENVIRONMENTAL\ESA\YOSEMITE SQUARE.APRX
LAYOUT: SITE PLAN USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR




## EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE

PARCEL BOUNDARY

N

0 250 500

FEET

BASEMAP SOURCE: ESRI MAPPING SERVICE

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# ASSESSOR'S PARCEL MAP

YOSEMITE SQUARE

MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NO. : | 18586.000.001 |
| SCALE: | AS SHOWN |
| DRAWN BY: QRL | CHECKED BY: SPM |

FIGURE NO. 3

PATH: G:\DRAFTING\PROJECTS_18000 TO 19999\18586\18586000001\ENVIRONMENTAL\ESA\YOSEMITE SQUARE.APRX
USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR

SOUTHWEST AREA, FACING NORTHEAST

STOCKPILE AND CALIFORNIA HIGHWAY 99

NORTHWEST AREA, FACING SOUTHEAST

IRRIGATION VALVES

NORTHEAST AREA, FACING SOUTHWEST

BURN PILE

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SITE PHOTOGRAPHS
YOSEMITE SQUARE
MANTECA, CALIFORNIA

| | | | |
|---|---|---|---|
| PROJECT NUMBER: **18586.000.001** | | | FIGURE NO. 4A |
| SCALE: **NO SCALE** | | | |
| DRAWN BY: **MAT** | CHECKED BY: **SPM** | | |

ORIGINAL FIGURE PRINTED IN COLOR

ABOVE GROUND STORAGE TANK

DEBRIS AND SPILLED OIL CONTAINERS

SOLID DEBRIS

ABOVE GROUND UTILITY POLES WITH TRANSFORMERS

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SITE PHOTOGRAPHS
YOSEMITE SQUARE
MANTECA, CALIFORNIA

| | |
|---|---|
| PROJECT NUMBER: **18586.000.001** | FIGURE NO. 4B |
| SCALE: **NO SCALE** | |
| DRAWN BY: **MAT** CHECKED BY: **SPM** | |

ORIGINAL FIGURE PRINTED IN COLOR

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# APPENDIX A

## ENVIRONMENTAL DATA RESOURCES, INC.

## Radius Map Report

**Yosemite Square**
Austin Road
Manteca, CA 95336

Inquiry Number: 06422879.2r
March 25, 2021

# The EDR Radius Map™ Report with GeoCheck®

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***Thank you for your business.***
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with any questions or comments.


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# EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

## TARGET PROPERTY INFORMATION

### ADDRESS

AUSTIN ROAD
MANTECA, CA 95336

### COORDINATES

| | |
|---|---|
| Latitude (North): | 37.7886000 - 37° 47' 18.96'' |
| Longitude (West): | 121.1849290 - 121° 11' 5.74'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 659825.4 |
| UTM Y (Meters): | 4183706.5 |
| Elevation: | 49 ft. above sea level |

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

| | |
|---|---|
| Target Property Map: | 5640398 MANTECA, CA |
| Version Date: | 2012 |

### AERIAL PHOTOGRAPHY IN THIS REPORT

| | |
|---|---|
| Portions of Photo from: | 20140628 |
| Source: | USDA |

# MAPPED SITES SUMMARY

Target Property Address:
AUSTIN ROAD
MANTECA, CA 95336

Click on Map ID to see full detail.

| MAP ID | SITE NAME | ADDRESS | DATABASE ACRONYMS | RELATIVE ELEVATION | DIST (ft. & mi.) DIRECTION |
|---|---|---|---|---|---|
| 1 | ALBERT V CARDOZA | 18816 SO AUSTIN RD | HIST UST | Lower | 98, 0.019, East |
| 2 | J EPOTTER | 19362 S AUSTIN RD | HIST UST | Higher | 199, 0.038, SE |
| 3 | RON PALMER/NORMA GRE | 1830 E YOSEMITE AVE | RCRA NonGen / NLR | Lower | 502, 0.095, NNW |
| 4 | JOHN N ARETAKIS FARM | 18561 SO AUSTIN RD | HIST UST | Lower | 593, 0.112, NE |
| A5 | THE HOME DEPOT NO 10 | 250 COMMERCE AVE | RCRA-SQG, FINDS, ECHO | Lower | 680, 0.129, NW |
| A6 | THE HOME DEPOT STORE | 250 COMMERCE AVE | CERS HAZ WASTE, CERS | Lower | 680, 0.129, NW |
| B7 | NESTLE DREYERS ICE C | 1351 DUPONT CT | RCRA NonGen / NLR | Lower | 847, 0.160, WSW |
| B8 | DREYERS GRAND ICE CR | 1351 DUPONT CT | CERS HAZ WASTE, CERS | Lower | 847, 0.160, WSW |
| C9 | FORD MOTOR CO SACTO | 1260 PHOENIX DR | CERS HAZ WASTE, CERS | Lower | 1078, 0.204, WNW |
| C10 | FORD MOTOR CO-SACRAM | 1260 PHOENIX DR | RCRA NonGen / NLR | Lower | 1078, 0.204, WNW |
| D11 | MANTECA TRAILER & CA | 1990 E YOSEMITE AVE | UST | Lower | 1152, 0.218, North |
| D12 | MANTECA TRAILER | 1990 E YOSEMITE | SWEEPS UST, CA FID UST | Lower | 1152, 0.218, North |
| E13 | STATEWIDE PETROLEUM | 1700 E YOSEMITE AVE | HIST UST, HAZNET, HWTS | Lower | 1208, 0.229, NNW |
| E14 | UNION OIL SS #5417 | 1700 E YOSEMITE AVE | HIST UST | Lower | 1208, 0.229, NNW |
| E15 | UNION #5417 | 1700 YOSEMITE AVE E | LUST, Cortese, HIST CORTESE, CERS | Lower | 1208, 0.229, NNW |
| E16 | MANTECA VALERO | 1700 E YOSEMITE AVE | UST | Lower | 1208, 0.229, NNW |
| E17 | MANTECA VALERO | 1700 E YOSEMITE AVE | CERS HAZ WASTE, CERS TANKS, CERS | Lower | 1208, 0.229, NNW |
| E18 | UNION OIL SS# 5417 | 1700 E YOSEMITE AVE | HIST UST | Lower | 1208, 0.229, NNW |
| E19 | UNOCAL #5417 | 1700 E YOSEMITE AVE | SWEEPS UST, CA FID UST, EMI, CERS | Lower | 1208, 0.229, NNW |
| 20 | BONFIGLIO B | 18400 S AUSTIN RD | HIST UST | Higher | 1218, 0.231, NE |
| F21 | VINTAGE POOL SERVICE | 1780 E YOSEMITE AVE | CERS HAZ WASTE, CERS, HWTS | Lower | 1239, 0.235, NNW |
| F22 | VINTAGE POOL SERVICE | 1780 E YOSEMITE AVE | RCRA NonGen / NLR | Lower | 1239, 0.235, NNW |
| G23 | STAPLES THE OFFICE S | 249 COMMERCE AVE | CERS HAZ WASTE | Lower | 1265, 0.240, NW |
| G24 | STAPLES THE OFFICE S | 249 COMMERCE AVE | RCRA NonGen / NLR | Lower | 1265, 0.240, NW |
| H25 | MANTECA TRAILER | 1890 E YOSEMITE AVE | HIST UST | Lower | 1312, 0.248, North |
| H26 | MANTECA TRAILER | 1890 E YOSIMITE | HIST UST | Lower | 1312, 0.248, North |
| E27 | ARCO #6020 CASE #2 | 1711 YOSEMITE | LUST, Cortese, HIST CORTESE, CERS | Lower | 1419, 0.269, NNW |
| E28 | ARCO #6020 CASE #2 | 1711 YOSEMITE AVE E | LUST | Lower | 1419, 0.269, NNW |
| 29 | ABF FREIGHT | 2427 YOSEMITE AVE | LUST, Cortese, HAZNET, HIST CORTESE, CERS, HWTS | Higher | 1653, 0.313, North |
| 30 | FRANK'S EXXON #2 | 1399 E YOSEMITE | LUST, SWEEPS UST, CA FID UST, Cortese, HIST... | Lower | 1811, 0.343, NW |
| 31 | GRANDA'S RECYCLING | 1393 E YOSEMITE AVE | SWRCY | Lower | 2113, 0.400, NW |
| 32 | LINEAGE LOGISTICS | 730 SPRECKELS AVENUE | CPS-SLIC, CERS | Lower | 2159, 0.409, West |
| 33 | FORWARD DISPOSAL | 19999 S. AUSTIN RD | DEED | Lower | 2227, 0.422, SSE |
| 34 | WOODWARD ANNEX SITE | WOODWARD AVENUE/SPRE | ENVIROSTOR, SCH, CERS | Lower | 5097, 0.965, SW |

# EXECUTIVE SUMMARY

## TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

## DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

## STANDARD ENVIRONMENTAL RECORDS

### *Federal NPL site list*

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

### *Federal Delisted NPL site list*

Delisted NPL ---------- National Priority List Deletions

### *Federal CERCLIS list*

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

### *Federal CERCLIS NFRAP site list*

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

### *Federal RCRA CORRACTS facilities list*

CORRACTS ---------- Corrective Action Report

### *Federal RCRA non-CORRACTS TSD facilities list*

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

### *Federal RCRA generators list*

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

### *Federal institutional controls / engineering controls registries*

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS ..... Institutional Controls Sites List

***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***

INDIAN LUST ..... Leaking Underground Storage Tanks on Indian Land

***State and tribal registered storage tank lists***

FEMA UST ..... Underground Storage Tank Listing
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
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
IHS OPEN DUMPS ..... Open Dumps on Indian Land

***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
PFAS ---- PFAS Contamination Site Location Listing

***Local Land Records***

LIENS ---- Environmental Liens Listing
LIENS 2 ---- CERCLA Lien Information

***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***

FUDS ---- Formerly Used Defense Sites
DOD ---- Department of Defense Sites
SCRD DRYCLEANERS ---- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---- Financial Assurance Information
EPA WATCH LIST ---- EPA WATCH LIST
2020 COR ACTION ---- 2020 Corrective Action Program List
TSCA ---- Toxic Substances Control Act
TRIS ---- Toxic Chemical Release Inventory System
SSTS ---- Section 7 Tracking Systems
ROD ---- Records Of Decision
RMP ---- Risk Management Plans
RAATS ---- RCRA Administrative Action Tracking System
PRP ---- Potentially Responsible Parties
PADS ---- PCB Activity Database System
ICIS ---- Integrated Compliance Information System
FTTS ---- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---- Material Licensing Tracking System
COAL ASH DOE ---- Steam-Electric Plant Operation Data
COAL ASH EPA ---- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---- PCB Transformer Registration Database
RADINFO ---- Radiation Information Database
HIST FTTS ---- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---- Incident and Accident Data
CONSENT ---- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---- Indian Reservations
FUSRAP ---- Formerly Utilized Sites Remedial Action Program
UMTRA ---- Uranium Mill Tailings Sites
LEAD SMELTERS ---- Lead Smelter Sites
US AIRS ---- Aerometric Information Retrieval System Facility Subsystem
US MINES ---- Mines Master Index File
ABANDONED MINES ---- Abandoned Mines
FINDS ---- Facility Index System/Facility Registry System
ECHO ---- Enforcement & Compliance History Information
DOCKET HWC ---- Hazardous Waste Compliance Docket Listing
UXO ---- Unexploded Ordnance Sites

FUELS PROGRAM ---- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---- Bond Expenditure Plan
CUPA Listings ---- CUPA Resources List
DRYCLEANERS ---- Cleaner Facilities
EMI ---- Emissions Inventory Data
ENF ---- Enforcement Action Listing
Financial Assurance ---- Financial Assurance Information Listing
HAZNET ---- Facility and Manifest Data
ICE ---- ICE
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
UIC GEO ---- UIC GEO (GEOTRACKER)
WASTEWATER PITS ---- Oil Wastewater Pits Listing
WDS ---- Waste Discharge System
WIP ---- Well Investigation Program Case List
MILITARY PRIV SITES ---- MILITARY PRIV SITES (GEOTRACKER)
PROJECT ---- PROJECT (GEOTRACKER)
WDR ---- Waste Discharge Requirements Listing
CIWQS ---- California Integrated Water Quality System
CERS ---- CERS
NON-CASE INFO ---- NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS ---- OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS ---- PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT ---- SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ ---- Well Stimulation Project (GEOTRACKER)
HWTS ---- Hazardous Waste Tracking System
MINES MRDS ---- Mineral Resources Data System

**EDR HIGH RISK HISTORICAL RECORDS**

***EDR Exclusive Records***

EDR MGP ---- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---- EDR Exclusive Historical Cleaners

**EDR RECOVERED GOVERNMENT ARCHIVES**

***Exclusive Recovered Govt. Archives***

RGA LF ---- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---- Recovered Government Archive Leaking Underground Storage Tank

**SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

# EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

**STANDARD ENVIRONMENTAL RECORDS**

### *Federal RCRA generators list*

RCRA-SQG: 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.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/14/2020 has revealed that there is 1 RCRA-SQG site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***THE HOME DEPOT NO 10***<br>EPA ID:: CAR000087239 | ***250 COMMERCE AVE*** | ***NW 1/8 - 1/4 (0.129 mi.)*** | ***A5*** | ***13*** |

### *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 10/26/2020 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***WOODWARD ANNEX SITE***<br>Facility Id: 39010046<br>Status: No Further Action | ***WOODWARD AVENUE/SPRE*** | ***SW 1/2 - 1 (0.965 mi.)*** | ***34*** | ***111*** |

# EXECUTIVE SUMMARY

***State and tribal leaking storage tank lists***

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 5 LUST sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ABF FREIGHT*** | ***2427 YOSEMITE AVE*** | ***N 1/4 - 1/2 (0.313 mi.)*** | ***29*** | ***100*** |
| Database: LUST REG 5, Date of Government Version: 07/01/2008<br>Database: LUST, Date of Government Version: 12/04/2020<br>Status: Completed - Case Closed<br>Global Id: T0607700826<br>Status: Case Closed | | | | |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***UNION #5417*** | ***1700 YOSEMITE AVE E*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E15*** | ***41*** |
| Database: LUST REG 5, Date of Government Version: 07/01/2008<br>Database: LUST, Date of Government Version: 12/04/2020<br>Status: Completed - Case Closed<br>Global Id: T0607700820<br>Status: Case Closed | | | | |
| ***ARCO #6020 CASE #2*** | ***1711 YOSEMITE*** | ***NNW 1/4 - 1/2 (0.269 mi.)*** | ***E27*** | ***95*** |
| Database: LUST REG 5, Date of Government Version: 07/01/2008<br>Database: LUST, Date of Government Version: 12/04/2020<br>Status: Completed - Case Closed<br>Global Id: T0607700467<br>Global Id: T0607700873<br>Status: Case Closed | | | | |
| ARCO #6020 CASE #2 | 1711 YOSEMITE AVE E | NNW 1/4 - 1/2 (0.269 mi.) | E28 | 100 |
| Database: LUST REG 5, Date of Government Version: 07/01/2008<br>Status: Case Closed | | | | |
| ***FRANK'S EXXON #2*** | ***1399 E YOSEMITE*** | ***NW 1/4 - 1/2 (0.343 mi.)*** | ***30*** | ***104*** |
| Database: LUST REG 5, Date of Government Version: 07/01/2008<br>Database: LUST, Date of Government Version: 12/04/2020<br>Status: Completed - Case Closed<br>Global Id: T0607700202<br>Status: Case Closed | | | | |

CPS-SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the CPS-SLIC list, as provided by EDR, has revealed that there is 1 CPS-SLIC site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***LINEAGE LOGISTICS*** | ***730 SPRECKELS AVENUE*** | ***W 1/4 - 1/2 (0.409 mi.)*** | ***32*** | ***110*** |
| Database: CPS-SLIC, Date of Government Version: 12/04/2020 | | | | |

Facility Status: Completed - Case Closed
Global Id: T10000013207

***State and tribal registered storage tank lists***

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 2 UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| MANTECA TRAILER & CA | 1990 E YOSEMITE AVE | N 1/8 - 1/4 (0.218 mi.) | D11 | 36 |
| Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018<br>Facility Id: FA0009197<br>Tank Status: 02 - Inactive, non-billable | | | | |
| MANTECA VALERO | 1700 E YOSEMITE AVE | NNW 1/8 - 1/4 (0.229 mi.) | E16 | 43 |
| Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018<br>Database: UST, Date of Government Version: 12/04/2020<br>Facility Id: FA0003796<br>Facility Id: 4491<br>Tank Status: 02 - Inactive, non-billable<br>Tank Status: 01 - Active, billable | | | | |

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Lists of Landfill / Solid Waste Disposal Sites***

SWRCY: A listing of recycling facilities in California.

A review of the SWRCY list, as provided by EDR, and dated 12/07/2020 has revealed that there is 1 SWRCY site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| GRANDA'S RECYCLING<br>Cert Id: RC270697.001 | 1393 E YOSEMITE AVE | NW 1/4 - 1/2 (0.400 mi.) | 31 | 109 |

***Local Lists of Hazardous waste / Contaminated Sites***

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 10/19/2020 has revealed that there

are 6 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***THE HOME DEPOT STORE*** | ***250 COMMERCE AVE*** | ***NW 1/8 - 1/4 (0.129 mi.)*** | ***A6*** | ***17*** |
| ***DREYERS GRAND ICE CR*** | ***1351 DUPONT CT*** | ***WSW 1/8 - 1/4 (0.160 mi.)*** | ***B8*** | ***22*** |
| ***FORD MOTOR CO SACTO*** | ***1260 PHOENIX DR*** | ***WNW 1/8 - 1/4 (0.204 mi.)*** | ***C9*** | ***30*** |
| ***MANTECA VALERO*** | ***1700 E YOSEMITE AVE*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E17*** | ***45*** |
| ***VINTAGE POOL SERVICE*** | ***1780 E YOSEMITE AVE*** | ***NNW 1/8 - 1/4 (0.235 mi.)*** | ***F21*** | ***72*** |
| STAPLES THE OFFICE S | 249 COMMERCE AVE | NW 1/8 - 1/4 (0.240 mi.) | G23 | 88 |

***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 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANTECA TRAILER***<br>Comp Number: 1456 | ***1990 E YOSEMITE*** | ***N 1/8 - 1/4 (0.218 mi.)*** | ***D12*** | ***37*** |
| ***UNOCAL #5417***<br>Status: A<br>Tank Status: A<br>Comp Number: 1454 | ***1700 E YOSEMITE AVE*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E19*** | ***64*** |

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 9 HIST UST sites within approximately 0.25 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| J EPOTTER<br>Facility Id: 00000038299 | 19362 S AUSTIN RD | SE 0 - 1/8 (0.038 mi.) | 2 | 9 |
| BONFIGLIO B<br>Facility Id: 00000022673 | 18400 S AUSTIN RD | NE 1/8 - 1/4 (0.231 mi.) | 20 | 71 |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ALBERT V CARDOZA<br>Facility Id: 00000015050 | 18816 SO AUSTIN RD | E 0 - 1/8 (0.019 mi.) | 1 | 9 |
| JOHN N ARETAKIS FARM<br>Facility Id: 00000042322 | 18561 SO AUSTIN RD | NE 0 - 1/8 (0.112 mi.) | 4 | 12 |
| ***STATEWIDE PETROLEUM***<br>UNION OIL SS #5417<br>Facility Id: 00000031202 | ***1700 E YOSEMITE AVE***<br>1700 E YOSEMITE AVE | ***NNW 1/8 - 1/4 (0.229 mi.)***<br>NNW 1/8 - 1/4 (0.229 mi.) | ***E13***<br>E14 | ***38***<br>40 |
| UNION OIL SS# 5417 | 1700 E YOSEMITE AVE | NNW 1/8 - 1/4 (0.229 mi.) | E18 | 63 |

| | | | | |
|---|---|---|---|---|
| Facility Id: 00000060765 | | | | |
| MANTECA TRAILER<br>Facility Id: 00000005737 | 1890 E YOSEMITE AVE | N 1/8 - 1/4 (0.248 mi.) | H25 | 94 |
| MANTECA TRAILER | 1890 E YOSIMITE | N 1/8 - 1/4 (0.248 mi.) | H26 | 95 |

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 10/19/2020 has revealed that there is 1 CERS TANKS site within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANTECA VALERO*** | ***1700 E YOSEMITE AVE*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E17*** | ***45*** |

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 2 CA FID UST sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***MANTECA TRAILER***<br>Facility Id: 39000800<br>Status: I | ***1990 E YOSEMITE*** | ***N 1/8 - 1/4 (0.218 mi.)*** | ***D12*** | ***37*** |
| ***UNOCAL #5417***<br>Facility Id: 39004170<br>Status: A | ***1700 E YOSEMITE AVE*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E19*** | ***64*** |

***Local Land Records***

DEED: The use of recorded land use restrictions is one of the methods the DTSC uses to protect the public from unsafe exposures to hazardous substances and wastes .

A review of the DEED list, as provided by EDR, and dated 11/30/2020 has revealed that there is 1 DEED site within approximately 0.5 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| FORWARD DISPOSAL | 19999 S. AUSTIN RD | SSE 1/4 - 1/2 (0.422 mi.) | 33 | 111 |

***Other Ascertainable Records***

RCRA NonGen / NLR: 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.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/14/2020 has revealed that there are 5 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| RON PALMER/NORMA GRE<br>EPA ID:: CAC003048018 | 1830 E YOSEMITE AVE | NNW 0 - 1/8 (0.095 mi.) | 3 | 10 |
| NESTLE DREYERS ICE C<br>EPA ID:: CAL000304499 | 1351 DUPONT CT | WSW 1/8 - 1/4 (0.160 mi.) | B7 | 20 |
| FORD MOTOR CO-SACRAM<br>EPA ID:: CAL000269772 | 1260 PHOENIX DR | WNW 1/8 - 1/4 (0.204 mi.) | C10 | 34 |
| VINTAGE POOL SERVICE<br>EPA ID:: CAL000414633 | 1780 E YOSEMITE AVE | NNW 1/8 - 1/4 (0.235 mi.) | F22 | 86 |
| STAPLES THE OFFICE S<br>EPA ID:: CAL000390733 | 249 COMMERCE AVE | NW 1/8 - 1/4 (0.240 mi.) | G24 | 92 |

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 12/17/2020 has revealed that there are 4 Cortese sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ABF FREIGHT***<br>Cleanup Status: COMPLETED - CASE CLOSED | ***2427 YOSEMITE AVE*** | ***N 1/4 - 1/2 (0.313 mi.)*** | ***29*** | ***100*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***UNION #5417***<br>Cleanup Status: COMPLETED - CASE CLOSED | ***1700 YOSEMITE AVE E*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E15*** | ***41*** |
| ***ARCO #6020 CASE #2***<br>Cleanup Status: COMPLETED - CASE CLOSED | ***1711 YOSEMITE*** | ***NNW 1/4 - 1/2 (0.269 mi.)*** | ***E27*** | ***95*** |
| ***FRANK'S EXXON #2***<br>Cleanup Status: COMPLETED - CASE CLOSED | ***1399 E YOSEMITE*** | ***NW 1/4 - 1/2 (0.343 mi.)*** | ***30*** | ***104*** |

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 4 HIST CORTESE sites within approximately 0.5 miles of the target property.

| Equal/Higher Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***ABF FREIGHT***<br>Reg Id: 391006 | ***2427 YOSEMITE AVE*** | ***N 1/4 - 1/2 (0.313 mi.)*** | ***29*** | ***100*** |

| Lower Elevation | Address | Direction / Distance | Map ID | Page |
|---|---|---|---|---|
| ***UNION #5417*** | ***1700 YOSEMITE AVE E*** | ***NNW 1/8 - 1/4 (0.229 mi.)*** | ***E15*** | ***41*** |

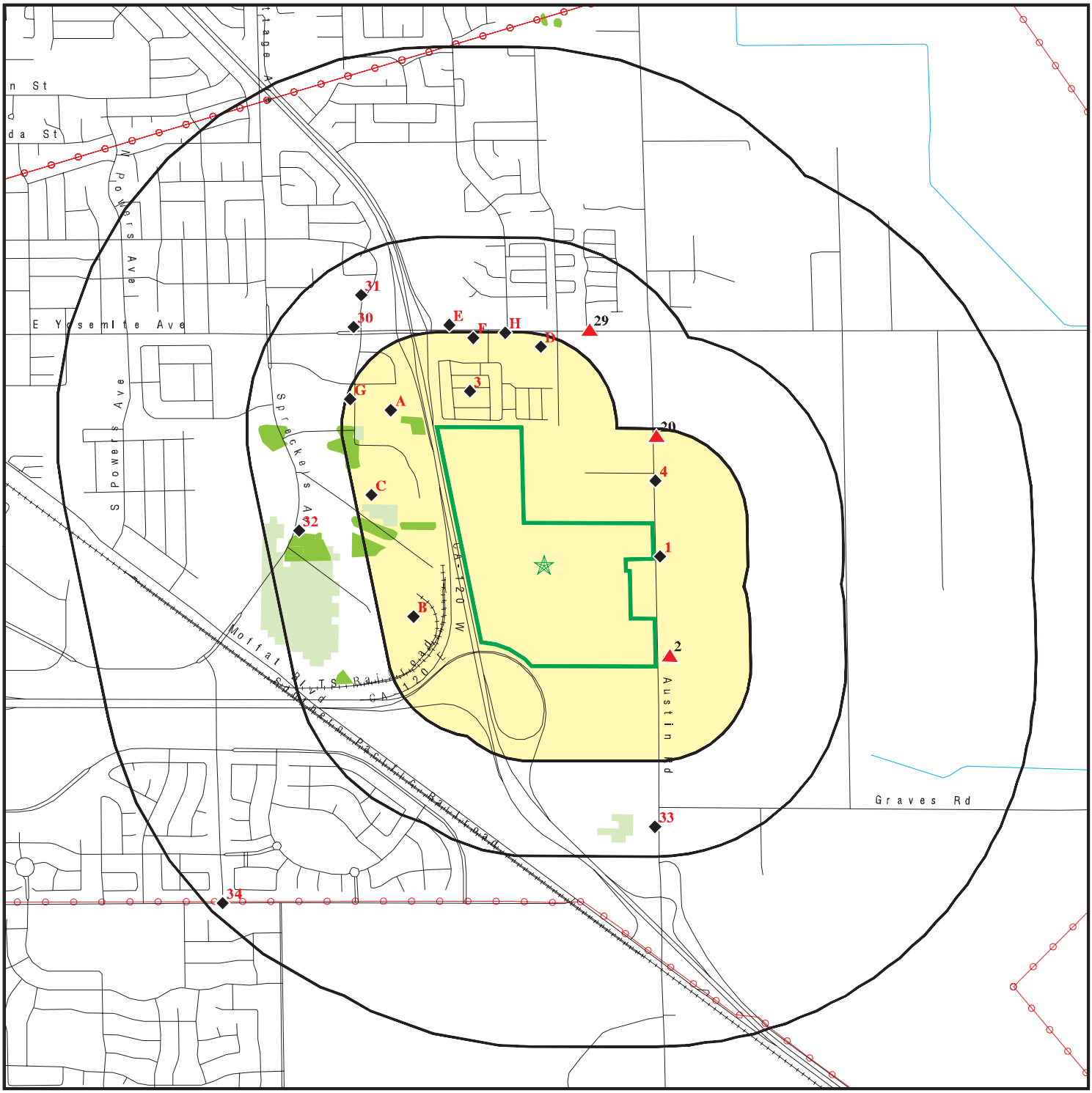
| | | | | |
|---|---|---|---|---|
| Reg Id: 391000 | | | | |
| ***ARCO #6020 CASE #2*** | ***1711 YOSEMITE*** | ***NNW 1/4 - 1/2 (0.269 mi.)*** | ***E27*** | ***95*** |
| Reg Id: 391057 | | | | |
| Reg Id: 390593 | | | | |
| ***FRANK'S EXXON #2*** | ***1399 E YOSEMITE*** | ***NW 1/4 - 1/2 (0.343 mi.)*** | ***30*** | ***104*** |
| Reg Id: 390277 | | | | |

# EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 3 records.

| Site Name | Database(s) |
|---|---|
| | CDL |
| | CDL |
| SPRECKELS SUGAR COMPANY, INC. | ENVIROSTOR |

# OVERVIEW MAP - 06422879.2R




- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Yosemite Square<br>ADDRESS: Austin Road<br>Manteca CA 95336<br>LAT/LONG: 37.7886 / 121.184929 | CLIENT: Engeo Inc.<br>CONTACT: Jason Sedore<br>INQUIRY #: 06422879.2r<br>DATE: March 25, 2021 7:01 pm |

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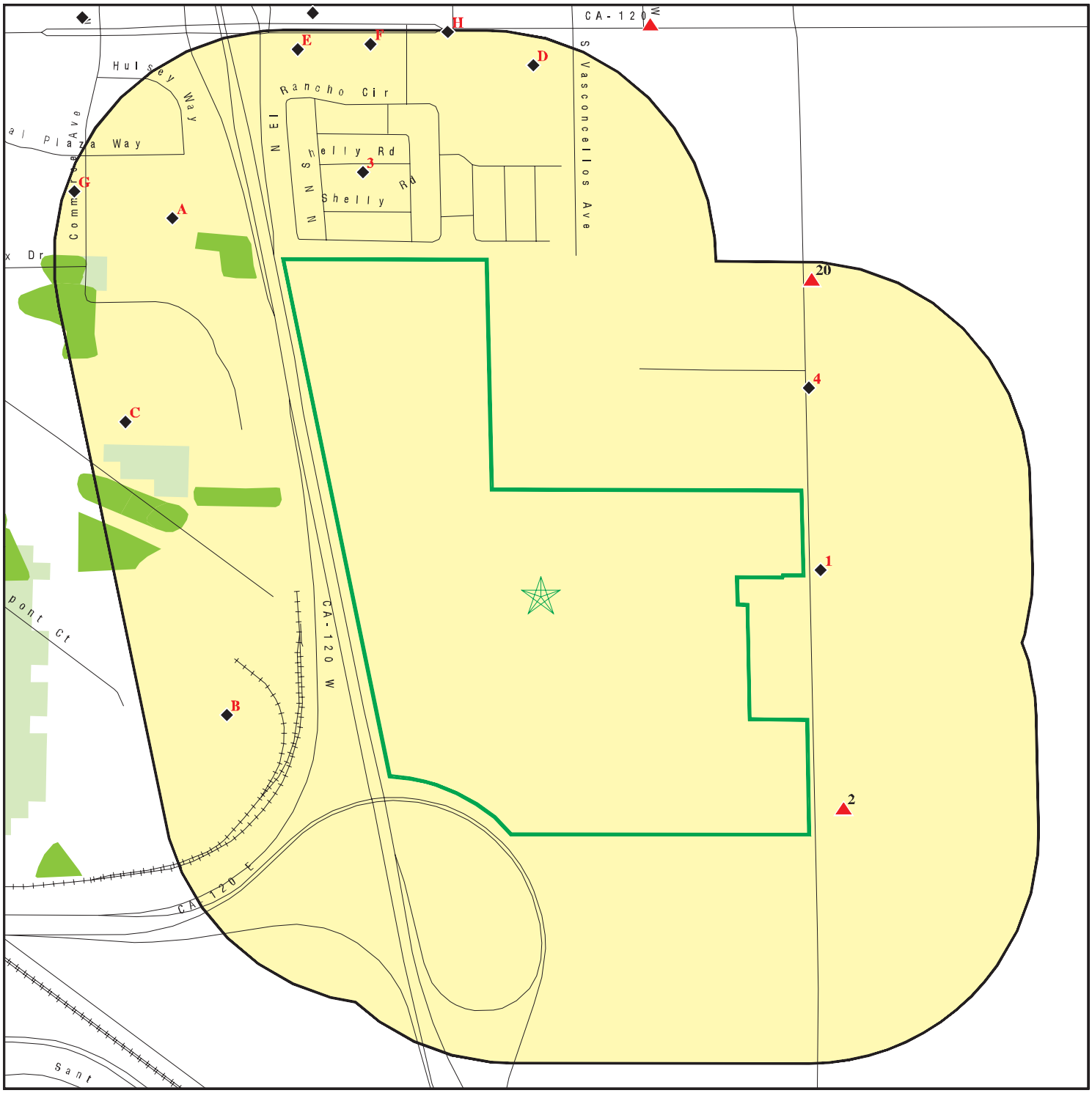
# DETAIL MAP - 06422879.2R




Target Property
Sites at elevations higher than or equal to the target property
Sites at elevations lower than the target property
Manufactured Gas Plants
Sensitive Receptors
National Priority List Sites
Dept. Defense Sites

0 1/8 1/4 1/2 Miles

Indian Reservations BIA
Special Flood Hazard Area (1%)
0.2% Annual Chance Flood Hazard
National Wetland Inventory
State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

| | |
|---|---|
| SITE NAME: Yosemite Square<br>ADDRESS: Austin Road<br>Manteca CA 95336<br>LAT/LONG: 37.7886 / 121.184929 | CLIENT: Engeo Inc.<br>CONTACT: Jason Sedore<br>INQUIRY #: 06422879.2r<br>DATE: March 25, 2021 7:02 pm |

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# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| **STANDARD ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Federal NPL site list*** | | | | | | | | |
| NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Proposed NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| NPL LIENS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal Delisted NPL site list*** | | | | | | | | |
| Delisted NPL | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal CERCLIS list*** | | | | | | | | |
| FEDERAL FACILITY | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SEMS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal CERCLIS NFRAP site list*** | | | | | | | | |
| SEMS-ARCHIVE | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA CORRACTS facilities list*** | | | | | | | | |
| CORRACTS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***Federal RCRA non-CORRACTS TSD facilities list*** | | | | | | | | |
| RCRA-TSDF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal RCRA generators list*** | | | | | | | | |
| RCRA-LQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| RCRA-SQG | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| RCRA-VSQG | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***Federal institutional controls / engineering controls registries*** | | | | | | | | |
| LUCIS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US ENG CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US INST CONTROLS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Federal ERNS list*** | | | | | | | | |
| ERNS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***State- and tribal - equivalent NPL*** | | | | | | | | |
| RESPONSE | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| ***State- and tribal - equivalent CERCLIS*** | | | | | | | | |
| ENVIROSTOR | 1.000 | | 0 | 0 | 0 | 1 | NR | 1 |
| ***State and tribal landfill and/or solid waste disposal site lists*** | | | | | | | | |
| SWF/LF | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal leaking storage tank lists*** | | | | | | | | |
| LUST | 0.500 | | 0 | 1 | 4 | NR | NR | 5 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| INDIAN LUST | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| CPS-SLIC | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***State and tribal registered storage tank lists*** | | | | | | | | |
| FEMA UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| AST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| INDIAN UST | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ***State and tribal voluntary cleanup sites*** | | | | | | | | |
| VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| INDIAN VCP | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***State and tribal Brownfields sites*** | | | | | | | | |
| BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| **ADDITIONAL ENVIRONMENTAL RECORDS** | | | | | | | | |
| ***Local Brownfield lists*** | | | | | | | | |
| US BROWNFIELDS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Landfill / Solid Waste Disposal Sites*** | | | | | | | | |
| WMUDS/SWAT | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| SWRCY | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| HAULERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| INDIAN ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ODI | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| DEBRIS REGION 9 | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| IHS OPEN DUMPS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Hazardous waste / Contaminated Sites*** | | | | | | | | |
| US HIST CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST Cal-Sites | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCH | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CERS HAZ WASTE | 0.250 | | 0 | 6 | NR | NR | NR | 6 |
| Toxic Pits | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| US CDL | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PFAS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| ***Local Lists of Registered Storage Tanks*** | | | | | | | | |
| SWEEPS UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| HIST UST | 0.250 | | 3 | 6 | NR | NR | NR | 9 |
| CERS TANKS | 0.250 | | 0 | 1 | NR | NR | NR | 1 |
| CA FID UST | 0.250 | | 0 | 2 | NR | NR | NR | 2 |
| ***Local Land Records*** | | | | | | | | |
| LIENS | 0.001 | | 0 | NR | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| LIENS 2 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DEED | 0.500 | | 0 | 0 | 1 | NR | NR | 1 |
| ***Records of Emergency Release Reports*** | | | | | | | | |
| HMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CHMIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| LDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MCS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SPILLS 90 | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ***Other Ascertainable Records*** | | | | | | | | |
| RCRA NonGen / NLR | 0.250 | | 1 | 4 | NR | NR | NR | 5 |
| FUDS | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| DOD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| SCRD DRYCLEANERS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| US FIN ASSUR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| EPA WATCH LIST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| 2020 COR ACTION | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| TSCA | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| TRIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SSTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ROD | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| RMP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RAATS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PRP | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PADS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICIS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| MLTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH DOE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| COAL ASH EPA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| PCB TRANSFORMER | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RADINFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST FTTS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOT OPS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CONSENT | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| INDIAN RESERV | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUSRAP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UMTRA | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| LEAD SMELTERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US AIRS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| US MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| ABANDONED MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| FINDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ECHO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| DOCKET HWC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UXO | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| FUELS PROGRAM | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| CA BOND EXP. PLAN | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| Cortese | 0.500 | | 0 | 1 | 3 | NR | NR | 4 |
| CUPA Listings | 0.250 | | 0 | 0 | NR | NR | NR | 0 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|
| DRYCLEANERS | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| EMI | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ENF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| Financial Assurance | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HAZNET | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| ICE | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HIST CORTESE | 0.500 | | 0 | 1 | 3 | NR | NR | 4 |
| HWP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| HWT | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MINES | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MWMP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| NPDES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PEST LIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROC | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| Notify 65 | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| UIC | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| UIC GEO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WASTEWATER PITS | 0.500 | | 0 | 0 | 0 | NR | NR | 0 |
| WDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WIP | 0.250 | | 0 | 0 | NR | NR | NR | 0 |
| MILITARY PRIV SITES | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROJECT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WDR | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CIWQS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| CERS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| NON-CASE INFO | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| OTHER OIL GAS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| PROD WATER PONDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| SAMPLING POINT | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| WELL STIM PROJ | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| HWTS | TP | | NR | NR | NR | NR | NR | 0 |
| MINES MRDS | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| **EDR HIGH RISK HISTORICAL RECORDS** | | | | | | | | |
| ***EDR Exclusive Records*** | | | | | | | | |
| EDR MGP | 1.000 | | 0 | 0 | 0 | 0 | NR | 0 |
| EDR Hist Auto | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| EDR Hist Cleaner | 0.125 | | 0 | NR | NR | NR | NR | 0 |
| **EDR RECOVERED GOVERNMENT ARCHIVES** | | | | | | | | |
| ***Exclusive Recovered Govt. Archives*** | | | | | | | | |
| RGA LF | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| RGA LUST | 0.001 | | 0 | NR | NR | NR | NR | 0 |
| - Totals -- | | 0 | 4 | 27 | 13 | 1 | 0 | 45 |

# MAP FINDINGS SUMMARY

| Database | Search Distance (Miles) | Target Property | < 1/8 | 1/8 - 1/4 | 1/4 - 1/2 | 1/2 - 1 | > 1 | Total Plotted |
|---|---|---|---|---|---|---|---|---|

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

**1**
**East**
**< 1/8**
**0.019 mi.**
**98 ft.**

**ALBERT V CARDOZA**
**18816 SO AUSTIN RD**
**MANTECA, CA 95336**

**HIST UST** **U001606144**
**N/A**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

HIST UST:

| | |
|---|---|
| Name: | ALBERT V CARDOZA |
| Address: | 18816 SO AUSTIN RD |
| City,State,Zip: | MANTECA, CA 95336 |
| File Number: | 0002F971 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F971.pdf |
| Region: | STATE |
| Facility ID: | 00000015050 |
| Facility Type: | Other |
| Other Type: | FARM |
| Contact Name: | Not reported |
| Telephone: | 2092391038 |
| Owner Name: | ALBERT V. CARDOZA |
| Owner Address: | 18816 SO. AUSTIN RD. |
| Owner City,St,Zip: | MANTECA, CA 95336 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | A-1 |
| Year Installed: | 1973 |
| Tank Capacity: | 00000475 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | 3/8 |
| Leak Detection: | Stock Inventor |

Click here for Geo Tracker PDF:

---

**2**
**SE**
**< 1/8**
**0.038 mi.**
**199 ft.**

**J EPOTTER**
**19362 S AUSTIN RD**
**MANTECA, CA 95336**

**HIST UST** **U001606215**
**N/A**

**Relative:**
**Higher**

**Actual:**
**52 ft.**

HIST UST:

| | |
|---|---|
| Name: | J EPOTTER |
| Address: | 19362 S AUSTIN RD |
| City,State,Zip: | MANTECA, CA 95336 |
| File Number: | 0002FD5D |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FD5D.pdf |
| Region: | STATE |
| Facility ID: | 00000038299 |
| Facility Type: | Other |
| Other Type: | Not reported |
| Contact Name: | WILLIAM W. POTTER |
| Telephone: | 2098235036 |
| Owner Name: | J.E. POTTER |
| Owner Address: | 19362 S. AUSTIN RD. |
| Owner City,St,Zip: | MANTECA, CA 95336 |
| Total Tanks: | 0002 |
| | |
| Tank Num: | 001 |
| Container Num: | 1 |
| Year Installed: | 1973 |

**J EPOTTER (Continued)** **U001606215**

| | |
|---|---|
| Tank Capacity: | 00000550 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | PREMIUM |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Visual |
| | |
| Tank Num: | 002 |
| Container Num: | 2 |
| Year Installed: | 1973 |
| Tank Capacity: | 00000550 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | 1/4 |
| Leak Detection: | Visual |

Click here for Geo Tracker PDF:

---

**3** **RON PALMER/NORMA GREY** **RCRA NonGen / NLR** **1026041854**
**NNW** **1830 E YOSEMITE AVE SPC 82** **CAC003048018**
**< 1/8** **MANTECA, CA 95336**
**0.095 mi.**
**502 ft.**

**Relative:** **Lower**

**Actual:** **46 ft.**

RCRA NonGen / NLR:

| | | |
|---|---|---|
| Date Form Received by Agency: | | 2019-12-19 00:00:00.0 |
| Handler Name: | RON PALMER/NORMA GREY | |
| Handler Address: | | 1830 E YOSEMITE AVE SPC 82 |
| Handler City,State,Zip: | | MANTECA, CA 95336 |
| EPA ID: | | CAC003048018 |
| Contact Name: | | RON PALMER |
| Contact Address: | | 1830 E YOSEMITE AVE SPC 82 |
| Contact City,State,Zip: | | MANTECA, CA 95336 |
| Contact Telephone: | | 209-607-0202 |
| Contact Fax: | | Not reported |
| Contact Email: | | LIZE@PWSEI.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Not reported |
| Federal Waste Generator Description: | | Not a generator, verified |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Not reported |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1830 E YOSEMITE AVE SPC 82 |
| Mailing City,State,Zip: | | MANTECA, CA 95336 |
| Owner Name: | | RON PALMER/NORMA GREY |
| Owner Type: | | Other |
| Operator Name: | | RON PALMER |
| Operator Type: | | Other |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |
| Transporter Activity: | | No |
| Transfer Facility Activity: | | No |
| Recycler Activity with Storage: | | No |
| Small Quantity On-Site Burner Exemption: | | No |

**RON PALMER/NORMA GREY (Continued)** **1026041854**

| | |
|---|---|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2020-02-10 17:51:38.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | RON PALMER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1830 E YOSEMITE AVE SPC 82 |

**RON PALMER/NORMA GREY (Continued)** **1026041854**

Owner/Operator City,State,Zip: MANTECA, CA 95336
Owner/Operator Telephone: 209-607-0202
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: RON PALMER/NORMA GREY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1830 E YOSEMITE AVE SPC 82
Owner/Operator City,State,Zip: MANTECA, CA 95336
Owner/Operator Telephone: 209-607-0202
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-12-19 00:00:00.0
Handler Name: RON PALMER/NORMA GREY
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

---

**4** **JOHN N ARETAKIS FARMS** **HIST UST** **U001606227**
**NE** **18561 SO AUSTIN RD** **N/A**
**< 1/8** **MANTECA, CA 95336**
**0.112 mi.**
**593 ft.**

**Relative:** **Lower**
**Actual:** **48 ft.**

HIST UST:
Name: JOHN N ARETAKIS FARMS
Address: 18561 SO AUSTIN RD
City,State,Zip: MANTECA, CA 95336
File Number: 0002FDEE
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FDEE.pdf
Region: STATE

**JOHN N ARETAKIS FARMS (Continued)** **U001606227**

| | |
|---|---|
| Facility ID: | 00000042322 |
| Facility Type: | Other |
| Other Type: | FARMING |
| Contact Name: | Not reported |
| Telephone: | 2098232502 |
| Owner Name: | JOHN N. ARETAKIS |
| Owner Address: | 18561 SO AUSTIN RD. |
| Owner City,St,Zip: | MANTECA, CA 95336 |
| Total Tanks: | 0001 |
| | |
| Tank Num: | 001 |
| Container Num: | I |
| Year Installed: | 1980 |
| Tank Capacity: | 00000900 |
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | Not reported |
| Leak Detection: | Stock Inventor, None |

Click here for Geo Tracker PDF:

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**A5** **THE HOME DEPOT NO 1006** **RCRA-SQG 1004676593**
**NW** **250 COMMERCE AVE** **FINDS CAR000087239**
**1/8-1/4** **MANTECA, CA 95336** **ECHO**
**0.129 mi.**
**680 ft.** **Site 1 of 2 in cluster A**

**Relative:** RCRA-SQG:
**Lower**

| | | |
|---|---|---|
| **Actual:** Date Form Received by Agency: | | 2005-06-15 00:00:00.0 |
| **44 ft.** Handler Name: | HOME DEPOT USA INC HD 1006 | |
| Handler Address: | | 250 COMMERCE AVE |
| Handler City,State,Zip: | | MANTECA, CA 95336 |
| EPA ID: | | CAR000087239 |
| Contact Name: | | ROBERT PERKINS |
| Contact Address: | | 1905 ASTON AVE |
| Contact City,State,Zip: | | CARLSBAD, CA 92008 |
| Contact Telephone: | | 760-602-8700 |
| Contact Fax: | | Not reported |
| Contact Email: | | RPERKINS@3ECOMPANY.COM |
| Contact Title: | | Not reported |
| EPA Region: | | 09 |
| Land Type: | | Private |
| Federal Waste Generator Description: | | Small Quantity Generator |
| Non-Notifier: | | Not reported |
| Biennial Report Cycle: | | Not reported |
| Accessibility: | | Not reported |
| Active Site Indicator: | | Handler Activities |
| State District Owner: | | Not reported |
| State District: | | Not reported |
| Mailing Address: | | 1905 ASTON AVE |
| Mailing City,State,Zip: | | CARLSBAD, CA 92008 |
| Owner Name: | | HOME DEPOT USA |
| Owner Type: | | Private |
| Operator Name: | | HOME DEPOT USA |
| Operator Type: | | Private |
| Short-Term Generator Activity: | | No |
| Importer Activity: | | No |
| Mixed Waste Generator: | | No |

**THE HOME DEPOT NO 1006 (Continued)** **1004676593**

| | |
|---|---|
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | No |
| Universal Waste Destination Facility: | No |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2005-08-16 20:13:15.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Hazardous Waste Summary:

| | |
|---|---|
| Waste Code: | D000 |
| Waste Description: | Not Defined |

**THE HOME DEPOT NO 1006 (Continued)** **1004676593**

Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D009
Waste Description: MERCURY

Waste Code: D016
Waste Description: 2,4-D (2,4-DICHLOROPHENOXYACETIC ACID)

Waste Code: D018
Waste Description: BENZENE

Waste Code: D035
Waste Description: METHYL ETHYL KETONE

Waste Code: F003
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: XYLENE, ACETONE, ETHYL ACETATE, ETHYL BENZENE, ETHYL ETHER, METHYL ISOBUTYL KETONE, N-BUTYL ALCOHOL, CYCLOHEXANONE, AND METHANOL; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONLY THE ABOVE SPENT NONHALOGENATED SOLVENTS; AND ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS, AND A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THOSE SOLVENTS LISTED IN F001, F002, F004, AND F005; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Waste Code: F005
Waste Description: THE FOLLOWING SPENT NONHALOGENATED SOLVENTS: TOLUENE, METHYL ETHYL KETONE, CARBON DISULFIDE, ISOBUTANOL, PYRIDINE, BENZENE, 2-ETHOXYETHANOL, AND 2-NITROPROPANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE NONHALOGENATED SOLVENTS OR THOSE SOLVENTS LISTED IN F001, F002, OR F004; AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.

Handler - Owner Operator:
Owner/Operator Indicator: Owner
Owner/Operator Name: HOME DEPOT USA
Legal Status: Private
Date Became Current: 2000-09-21 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 2455 PACES FERRY RD
Owner/Operator City,State,Zip: ATLANTA, GA 30339
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: HOME DEPOT USA
Legal Status: Private
Date Became Current: 2000-09-21 00:00:00.
Date Ended Current: Not reported

**THE HOME DEPOT NO 1006 (Continued)** **1004676593**

| | |
|---|---|
| Owner/Operator Address: | Not reported |
| Owner/Operator City,State,Zip: | Not reported |
| Owner/Operator Telephone: | Not reported |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | THE HOME DEPOT U S A |
| Legal Status: | Private |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 2455 PACES FERRY RD |
| Owner/Operator City,State,Zip: | ATLANTA, CA 30339 |
| Owner/Operator Telephone: | 770-433-8211 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2000-11-29 00:00:00.0 |
| Handler Name: THE HOME DEPOT NO 1006 | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | No |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |
| | |
| Receive Date: | 2005-06-15 00:00:00.0 |
| Handler Name: HOME DEPOT USA INC HD 1006 | |
| Federal Waste Generator Description: | Small Quantity Generator |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 44411 |
| NAICS Description: | HOME CENTERS |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

**THE HOME DEPOT NO 1006 (Continued)** **1004676593**

FINDS:
Registry ID: 110012232823

Click Here:

Environmental Interest/Information System:
AIR EMISSIONS CLASSIFICATION UNKNOWN
California Hazardous Waste Tracking System - Datamart (HWTS-DATAMART) provides California with information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

| | |
|---|---|
| Envid: | 1004676593 |
| Registry ID: | 110012232823 |
| DFR URL: | http://echo.epa.gov/detailed-facility-report?fid=110012232823 |
| Name: | THE HOME DEPOT NO 1006 |
| Address: | 250 COMMERCE AVE |
| City,State,Zip: | MANTECA, CA 95336 |

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**A6** **THE HOME DEPOT STORE #1006** **CERS HAZ WASTE** **S121776283**
**NW** **250 COMMERCE AVE** **CERS** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.129 mi.**
**680 ft.** **Site 2 of 2 in cluster A**

**Relative:**
**Lower**

**Actual:**
**44 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | THE HOME DEPOT STORE #1006 |
| Address: | 250 COMMERCE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 403800 |
| CERS ID: | 10140217 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | THE HOME DEPOT STORE #1006 |
| Address: | 250 COMMERCE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 403800 |
| CERS ID: | 10140217 |
| CERS Description: | Chemical Storage Facilities |

Evaluation:

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 03-13-2019 |
| Violations Found: | No |
| Eval Type: | Routine done by local agency |
| Eval Notes: | No violations were found at time of inspection. Starting September 1, |

**THE HOME DEPOT STORE #1006 (Continued)** **S121776283**

2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.

Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-02-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations found at time of inspection. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 403800
Facility Name: THE HOME DEPOT STORE #1006
Env Int Type Code: HMBP
Program ID: 10140217
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.794560
Longitude: -121.192280

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Tim Hsu, Agent for The Home Depot
Entity Title: Regulatory Compliance Specialist
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420

Affiliation Type Desc: Document Preparer
Entity Name: ARCADIS U.S., Inc.
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

**THE HOME DEPOT STORE #1006 (Continued)** **S121776283**

| | |
|---|---|
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | ARCADIS U.S., Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | 213 Court Street, Suite 700 c/o Compliance Dept. |
| Affiliation City: | Middletown |
| Affiliation State: | CT |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 06457 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | The Home Depot USA, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 213 Court Street, Suite 700 c/o Compliance Dept. |
| Affiliation City: | Middletown |
| Affiliation State: | CT |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 06457 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | The Home Depot U.S.A., Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | 2455 Paces Ferry Road, C-19 |
| Affiliation City: | Atlanta |
| Affiliation State: | GA |
| Affiliation Country: | United States |
| Affiliation Zip: | 30339 |
| Affiliation Phone: | (770) 433-8211 |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | The Home Depot U.S.A., Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (770) 433-8211 |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | THE HOME DEPOT U.S.A., INC. |

**THE HOME DEPOT STORE #1006 (Continued)** **S121776283**

| | |
|---|---|
| Entity Title: | Not reported |
| Affiliation Address: | 2455 Paces Ferry Road, C-19 |
| Affiliation City: | Atlanta |
| Affiliation State: | GA |
| Affiliation Country: | United States |
| Affiliation Zip: | 30339 |
| Affiliation Phone: | (770) 433-8211 |

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**B7** **NESTLE DREYERS ICE CREAM** **RCRA NonGen / NLR** **1024813515**
**WSW** **1351 DUPONT CT** **CAL000304499**
**1/8-1/4** **MANTECA, CA 95336**
**0.160 mi.**
**847 ft.** **Site 1 of 2 in cluster B**

**Relative:** **Lower**

**Actual:** **45 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2006-03-16 00:00:00.0 |
| Handler Name: | NESTLE DREYERS ICE CREAM |
| Handler Address: | 1351 DUPONT CT |
| Handler City,State,Zip: | MANTECA, CA 95336-6004 |
| EPA ID: | CAL000304499 |
| Contact Name: | JARROD BUTLER |
| Contact Address: | 7301 DISTRICT BLVD |
| Contact City,State,Zip: | BAKERSFIELD, CA 93313 |
| Contact Telephone: | 619-312-7072 |
| Contact Fax: | Not reported |
| Contact Email: | JARROD.BUTLER3@US.NESTLE.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 7301 DISTRICT BLVD |
| Mailing City,State,Zip: | BAKERSFIELD, CA 93313-0000 |
| Owner Name: | NESTLE DREYER'S ICE CREAM INC |
| Owner Type: | Other |
| Operator Name: | JARROD BUTLER |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |

**NESTLE DREYERS ICE CREAM (Continued)** **1024813515**

| | |
|---|---|
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:28:04.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | NESTLE DREYER'S ICE CREAM INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 5929 COLLEGE AVE |
| Owner/Operator City,State,Zip: | OAKLAND, CA 94618-3003 |
| Owner/Operator Telephone: | 510-652-8187 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| | |
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | JARROD BUTLER |

**NESTLE DREYERS ICE CREAM (Continued)** **1024813515**

Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 7301 DISTRICT BLVD
Owner/Operator City,State,Zip: BAKERSFIELD, CA 93313
Owner/Operator Telephone: 619-312-7072
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2006-03-16 00:00:00.0
Handler Name: NESTLE DREYERS ICE CREAM
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 42243
NAICS Description: DAIRY PRODUCT (EXCEPT DRIED OR CANNED) WHOLESALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**B8** **DREYERS GRAND ICE CREAM** **CERS HAZ WASTE** **S121756419**
**WSW** **1351 DUPONT CT** **CERS** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.160 mi.**
**847 ft.** **Site 2 of 2 in cluster B**

**Relative:** **Lower**
**Actual:** **45 ft.**

CERS HAZ WASTE:
Name: DREYERS GRAND ICE CREAM
Address: 1351 DUPONT CT
City,State,Zip: MANTECA, CA 95336-6004
Site ID: 26509
CERS ID: 10185191
CERS Description: Hazardous Waste Generator

Name: DREYERS GRAND ICE CREAM
Address: 1351 DUPONT CT
City,State,Zip: MANTECA, CA 95336-6004
Site ID: 26509
CERS ID: 10185191
CERS Description: Hazardous Chemical Management

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

CERS:
Name: DREYERS GRAND ICE CREAM
Address: 1351 DUPONT CT
City,State,Zip: MANTECA, CA 95336-6004
Site ID: 26509
CERS ID: 10185191
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: 40 CFR 1 265.35 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.35
Violation Description: Failure to maintain aisle space to allow the unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of facility operation in an emergency, unless aisle space is not needed for any of these purposes.
Violation Notes: Ladders are stored in front of the 55 gallon container of used oil and 55 gallon used oil filters container in the equipment room. Adequate aisle space shall be maintained to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to all areas of facility operation in an emergency. Immediately maintain aisle space to allow the unobstructed movement of personnel, fire protection, spill control equipment, and decontamination equipment to any area of facility operation in an emergency.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 07-28-2020
Citation: 19 CCR 4.5 2745.10(f) - California Code of Regulations, Title 19, Chapter 4.5, Section(s) 2745.10(f)
Violation Description: Failure to contact the UPA within 30 days of a change of owner or operator to update the registration information.
Violation Notes: Returned to compliance on 08/06/2020. The owner/operator failed to contact the Unified Program Agency within 30 days of a change of owner or operator to update the registration information. The Owner of this facility changed in december 2019 and SJC EHD has not received the RMP registration update. The Owner changes from Nestle Dryers' Grand Ice Cream to Dryers' Grand Ice Cream. Within 30 days of a change in the owner or operator, the new owner or operator shall contact the Unified Program Agency to update registration information . Update the registration informatio/RMP and submit a copy to our department.
Violation Division: San Joaquin County Environmental Health
Violation Program: CalARP
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.

Violation Notes: The 55 gallon container of used oil and the 55 gallon container of used oil filters were opened in the equipment room. All hazardous waste containers shall be closed at all times except when adding or removing waste. Immediately close these containers and ensure all hazardous waste containers are closed when not adding or removing waste.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: 22 CCR 12 66262.34(e) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(e)
Violation Description: Failure to meet the following conditions of satellite accumulation regulations: G Accumulate up to 55 gallons of hazardous waste or one quart of acute hazardous waste at or near the initial point of accumulation which was under the control of the operator. G Total time hazardous waste can be accumulated onsite in any generator accumulation area is one year, i.e., the combined accmulation time at a satellite accumulation point and at a 90/180/270 accumulation area (depending on size of generator and distance transported), whichever comes first. G The generator complies with section 66265.171, 66265.172, and 66265.173(a). G The container must be clearly marked with the initial date that hazardous waste is first placed in the container and labelled with the words G Hazardous WasteG including specified information G Container must be labelled with the date the satellite accumulation limit is reached and moved within three days after reaching the 55 gallon (or one quart) limit to a G 90 dayG accumulation area G 55 gallons (or one quart of acute hazardous waste) of waste per process may be accumulated
Violation Notes: The 55 gallon container of used oil filters label is not legible. Turn around the container to make the label visible or relabel the container. All hazardous waste containers shall be marked with the following information: - the words G Hazardous WasteG - name and address of generator - hazardous properties - physical state - composition (contents) - accumulation start date Immediately label these containers and ensure that all hazardous waste containers are marked with all the required information.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description: Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

| | |
|---|---|
| | if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount greater than one kilogram for more than 90 days. |
| Violation Notes: | Used oil container and used oil filter container is stored on site for greater than 180 days. Accumulation start date on the label of oil container reads 1/11/2017. Used oil filter label could not be read. Last fiter disposal was 1/11/17. Since these containers have been on site longer than 180 days, immediately contact a licensed hazardous waste hauler to dispose of this waste under manifest and submit a copy of the manifest to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 26509 |
| Site Name: | DREYERS GRAND ICE CREAM |
| Violation Date: | 07-28-2020 |
| Citation: | HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2 |
| Violation Description: | Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | Returned to compliance on 07/28/2020. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually by the due date. The 2019 annual submittal was submitted late on 03/03/2019. The 2020 annual submittal also was submitted late on 07/27/2020. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. No further action is required. Violation was corrected on site on 07/27/2020. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 26509 |
| Site Name: | DREYERS GRAND ICE CREAM |
| Violation Date: | 05-30-2017 |
| Citation: | 19 CCR 6.95 25508(a)(1) - California Code of Regulations, Title 19, Chapter 6.95, Section(s) 25508(a)(1) |
| Violation Description: | Failure to complete and electronically submit the Business Activities Page and/or Business Owner Operator Identification Page. |
| Violation Notes: | Returned to compliance on 06/29/2017. The Business Owner/Operator Identification form was not accurately complete. Business listed 1,619 gallons of petroleum fluids under the chemical inventory section in CERS, and answered "NO" to having aboveground tanks or containers with regulated storage greater than 1,320 gallons of petroleum products (new or used) in CERS . The facility indicated that the listed number (1,1619 gallons) is an estimate. Business shall verify the amount, and report the accurate infomation. This information must be current and submitted as part of the business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, enter the correct or updated information, and submit to the EHD for approval. |
| Violation Division: | San Joaquin County Environmental Health |

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

Violation Program: HMRRP
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: 40 CFR 1 265.31 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.31
Violation Description: Failure to maintain and operate the facility to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of hazardous waste or hazardous waste constituents to air, soil, or surface water which could threaten human health or the environment.
Violation Notes: Observed oil puddle on top of the 55 gallon container lid in the equipment room. Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or release of hazardous waste to air, soil, or surface water which could threaten human health or the environment. Immediately clean oil puddle from the lid, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Violation Date: 09-21-2018
Citation: 40 CFR 1 265.172 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.172
Violation Description: Failure to accumulate or store hazardous waste in container made of or lined with materials which will not react with, and are otherwise compatible with, the hazardous waste to be stored.
Violation Notes: Used oil filters are stored in a 55 gallon container that do not fit in it. The filters are longer than the container. Wastes shall be stored in a container made of or lined with materials which will not react with, and are otherwise compatible with, the hazardous waste to be transferred or stored, so that the ability of the container to contain the waste is not impaired. Immediately transfer the used oil filters to a compatible container.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were noted at the time of the inspection. This inspection also was part of the evaluation review as part of the RMP submittal review. Comments were not received during the formal public review period. Notes: Upon reviewing the 5 years process hazard analysis (PHA) records that were initiated on June 2010, the PHA has forty eight recommendations that have been closed out. Upon reviewing the 5 years process hazard analysis (PHA) records that were initiated on August 2015, the PHA has thirteen recommendations; ten

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

recommendations were closed out, and three are still open. All recommendations from the hazard review/process hazard analysis must be completed within one year from the date of the hazard review/process hazard analysis. If more time is required, our department must be notified in writing to request an extension for up to 2.5 years. Upon reviewing the three-year compliance audit from August 21 and 22, 2014, six recommendation were noted, and all [Truncated]

Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-30-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: Ray and I conducted a billable inspection. Inspection and taking photos were granted by Joseph Kilpatrick, EHS manager. Inspection was facilitated by Joseph Kilpatrick and Kevin Hansen ( consultant with KRH Engineering). Inspection report was discussed with Center Distribution Manager, Matthew Chastain. Please refer to the 001 daily for the inspection report.
Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-30-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 06/29/2017 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On-site to Conduct a CalARP inspection. The inspection included a site walkthrough of the Ammonia Process and an evaluation review of the RMP documents. There was one violation during the inspection. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/27/2020 . Notes: The RMP 5-years update is due by 08/08/2020. The Process Hazard Analysis 5-yeras update is due by 8/11/2020 and it is scheduled to be conducted tomorrow. The seismic assessment report has four recommendations. The seismic 5-years revalidation is due by december 02, 2020. Ensure all the recommendations are certified

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

complete by the engineer by 12/02,2020. The 5-years Mechanical Integrity Audit is being conducted today. The three-years Compliance Audit is due Aug 1 , 2020. Compliance Audit review is in progress. SJC EHD has on fi

Eval Division: San Joaquin County Environmental Health
Eval Program: CalARP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: On-site to conduct a Hazardous Materials Business Plan (HMBP) inspection. There was one violation during the inspection. Violations was corrected on site on 07/27/2020. To minimize person to person contact EHD is choosing to write the name of person receiving the report instead of having them sign. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-21-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by October 22, 2018. Waste streams observed: Used oil, used oil filters, and absorbent pads. Inspector provide: Free training classes list and small business hazardous waste disposal brochure. A copy of the inspection report and photo log is sent to the business via E-mail.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

Enforcement Action:
Site ID: 26509
Site Name: DREYERS GRAND ICE CREAM
Site Address: 1351 DUPONT CT
Site City: MANTECA
Site Zip: 95336-6004
Enf Action Date: 05-30-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Property Owner
Entity Name: Dreyer’s Grand Ice Cream Holdings, Inc.

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

| | |
|---|---|
| Entity Title: | Not reported |
| Affiliation Address: | 5929 College Avenue |
| Affiliation City: | Oakland |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94618 |
| Affiliation Phone: | (877) 437-3937 |
| | |
| Affiliation Type Desc: | CUPA District |
| Entity Name: | San Joaquin Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1868 East Hazelton Avenue |
| Affiliation City: | Stockton |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95205-6232 |
| Affiliation Phone: | (209) 468-3420 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Ed Melendez |
| Entity Title: | Not reported |
| Affiliation Address: | 1351 DuPont Court |
| Affiliation City: | Manteca |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336-6004 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Ed Melendez |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (209) 824-3057 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Resource Compliance |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1351 DuPont Court |
| Affiliation City: | Manteca |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336-6004 |
| Affiliation Phone: | Not reported |

**DREYERS GRAND ICE CREAM (Continued)** **S121756419**

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Ed Melendez |
| Entity Title: | Distribution Center Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Dreyer's Grand Ice Cream Holdings, Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | 5929 College Avenue |
| Affiliation City: | Oakland |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 94618 |
| Affiliation Phone: | (877) 437-3937 |

| | |
|---|---|
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | DREYERS GRAND ICE CREAM |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**C9** **FORD MOTOR CO SACTO HV / HC CTR** **CERS HAZ WASTE** **S121740091**
**WNW** **1260 PHOENIX DR** **CERS** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.204 mi.**
**1078 ft.** **Site 1 of 2 in cluster C**

**Relative:**
**Lower**

**Actual:**
**43 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Address: | 1260 PHOENIX DR |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 117300 |
| CERS ID: | 10184769 |
| CERS Description: | Hazardous Waste Generator |

CERS:

| | |
|---|---|
| Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Address: | 1260 PHOENIX DR |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 117300 |
| CERS ID: | 10184769 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 117300 |
| Site Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Violation Date: | 08-06-2019 |
| Citation: | HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, |

**FORD MOTOR CO SACTO HV / HC CTR (Continued)** **S121740091**

| | |
|---|---|
| | Section(s) 25508.2 |
| Violation Description: | Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date. |
| Violation Notes: | Returned to compliance on 08/06/2019. The business plan information has not been reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. The business plan was submitted late on 2/4/2019. The hazardous materials inventory shall be submitted by January 15 of each calendar year and may be submitted beginning November 1 of the previous year. This violation has been corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 117300 |
| Site Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Violation Date: | 08-06-2019 |
| Citation: | HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 08/06/2019. 250 gallons of diesel was found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. This violation has been corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 117300 |
| Site Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Violation Date: | 08-06-2019 |
| Citation: | HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 08/06/2019. The site map was not complete as part of the business plan. The site map was missing a key that defined symbols and acronyms. Please add the missing elements to the site map. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as G NA". This violation was corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 117300 |
| Site Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Violation Date: | 08-06-2019 |
| Citation: | HSC 6.95 25510(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25510(a) |
| Violation Description: | Failure to report a release or threatened release of a hazardous |

**FORD MOTOR CO SACTO HV / HC CTR (Continued)** **S121740091**

material to the unified program agency and to OES.

Violation Notes: Returned to compliance on 09/06/2019. A release of diesel occurred on 8/6/2019 and was not reported to the EHD and CalOES. The diesel tank has droplets on the bottom of the tank that are hitting the bottom of the secondary and the outside wall of the secondary containment. A melted down pig pad created a sticky mess next to the secondary containment. Please, immediately stop the tank from leaking and clean up both spills. Please provide documentation of clean up and that the tank has been fixed. A release or threatened release of a hazardous material shall be verbally reported immediately to the EHD and CalOES. Ensure that any future releases or threatened releases of a hazardous material are verbally reported immediately to the EHD and CalOES.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-06-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 9/5/2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Coordinates:
Site ID: 117300
Facility Name: FORD MOTOR CO SACTO HV / HC CTR
Env Int Type Code: HWG
Program ID: 10184769
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.791330
Longitude: -121.193210

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: Adalberto Flores
Entity Title: Not reported
Affiliation Address: 1260 PHOENIX DR
Affiliation City: MANTECA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95336
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue

**FORD MOTOR CO SACTO HV / HC CTR (Continued)** **S121740091**

| | |
|---|---|
| Affiliation City: | Stockton |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95205-6232 |
| Affiliation Phone: | (209) 468-3420 |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 1260 PHOENIX DR |
| Affiliation City: | MANTECA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | FORD MOTOR CO SACTO HV / HC CTR |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Paul Nielson |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Paul Nielson |
| Entity Title: | Plant Manager |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Ford Motor Company |
| Entity Title: | Not reported |
| Affiliation Address: | 1260 PHOENIX DR |
| Affiliation City: | MANTECA |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 824-6601 |
| | |
| Affiliation Type Desc: | Operator |

**FORD MOTOR CO SACTO HV / HC CTR (Continued)** **S121740091**

| | |
|---|---|
| Entity Name: | Paul Nielson |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (209) 824-6601 |

---

**C10** **FORD MOTOR CO-SACRAMENTO PARTS DIST CTR** **RCRA NonGen / NLR** **1024806582**
**WNW** **1260 PHOENIX DR** **CAL000269772**
**1/8-1/4** **MANTECA, CA 95336**
**0.204 mi.**
**1078 ft.** **Site 2 of 2 in cluster C**

**Relative:** **Lower**

**Actual:** **43 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2003-04-30 00:00:00.0 |
| Handler Name: | FORD MOTOR CO-SACRAMENTO PARTS DIST CTR |
| Handler Address: | 1260 PHOENIX DR |
| Handler City,State,Zip: | MANTECA, CA 95336-6006 |
| EPA ID: | CAL000269772 |
| Contact Name: | PAUL NIELSON |
| Contact Address: | 1260 PHOENIX DR |
| Contact City,State,Zip: | MANTECA, CA 95336 |
| Contact Telephone: | 209-824-6601 |
| Contact Fax: | 209-824-6651 |
| Contact Email: | PNIELSON@FORD.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 1260 PHOENIX DR |
| Mailing City,State,Zip: | MANTECA, CA 95336-6006 |
| Owner Name: | FORD MOTOR CO INC |
| Owner Type: | Other |
| Operator Name: | PAUL NIELSON |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |

**FORD MOTOR CO-SACRAMENTO PARTS DIST CTR (Continued)** **1024806582**

| | |
|---|---|
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-05 20:24:57.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | FORD MOTOR CO INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1260 PHOENIX DR |
| Owner/Operator City,State,Zip: | MANTECA, CA 95336-6006 |
| Owner/Operator Telephone: | 209-824-6601 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Operator |

**FORD MOTOR CO-SACRAMENTO PARTS DIST CTR (Continued)** **1024806582**

| | |
|---|---|
| Owner/Operator Name: | PAUL NIELSON |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 1260 PHOENIX DR |
| Owner/Operator City,State,Zip: | MANTECA, CA 95336 |
| Owner/Operator Telephone: | 209-824-6601 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2003-04-30 00:00:00.0 |
| Handler Name: | FORD MOTOR CO-SACRAMENTO PARTS DIST CTR |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 44131 |
| NAICS Description: | AUTOMOTIVE PARTS AND ACCESSORIES STORES |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

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**D11** **MANTECA TRAILER & CAMPER INC** **UST** **U004260934**
**North** **1990 E YOSEMITE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.218 mi.**
**1152 ft.** **Site 1 of 2 in cluster D**

**Relative:** UST SAN JOAQUIN:
**Lower**

| | |
|---|---|
| **Actual:** Name: | MANTECA TRAILER & CAMPER INC |
| **47 ft.** Address: | 1990 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | SJ |
| Facility Id: | FA0009197 |
| Mail Address: | PO BOX 2036 |
| Mail Address 2: | Not reported |
| Mail Care of: | Not reported |
| Mail City,St,Zip: | MANTECA, CA 95336 |
| Tank Rec ID: | Not reported |
| Tank Number: | 1 |
| Tank Status: | 02 - Inactive, non-billable |

**MANTECA TRAILER & CAMPER INC (Continued)** **U004260934**

| | |
|---|---|
| Tank Capacity: | 3000 |
| Product Type Desc: | 09 - OTHER PETROLEUM |
| Program Element: | 2380 |
| Decode for Program Element: | 2380 - ADDITIONAL EXISTING UST - obsolete |
| Chemical Form: | (none) |
| CAS#: | Not reported |
| CERS ID: | Not reported |
| Cross Ref Tank ID: | Not reported |
| LEA ID: | 9 |
| Common Name: | Not reported |
| Date Installed: | Not reported |
| Date of Closure: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |

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**D12** **MANTECA TRAILER** **SWEEPS UST** **S101592920**
**North** **1990 E YOSEMITE** **CA FID UST** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.218 mi.**
**1152 ft.** **Site 2 of 2 in cluster D**

**Relative:** **Lower**

**Actual:** **47 ft.**

SWEEPS UST:

| | |
|---|---|
| Name: | MANTECA TRAILER |
| Address: | 1990 E YOSEMITE |
| City: | MANTECA |
| Status: | Not reported |
| Comp Number: | 1456 |
| Number: | Not reported |
| Board Of Equalization: | Not reported |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 39-000-001456-000001 |
| Tank Status: | Not reported |
| Capacity: | 3000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | LEADED |
| Number Of Tanks: | 1 |

CA FID UST:

| | |
|---|---|
| Facility ID: | 39000800 |
| Regulated By: | UTNKI |
| Regulated ID: | Not reported |
| Cortese Code: | Not reported |
| SIC Code: | Not reported |
| Facility Phone: | Not reported |
| Mail To: | Not reported |
| Mailing Address: | P O BOX 2036 |
| Mailing Address 2: | Not reported |
| Mailing City,St,Zip: | MANTECA 95336 |
| Contact: | Not reported |
| Contact Phone: | Not reported |
| DUNs Number: | Not reported |
| NPDES Number: | Not reported |

**MANTECA TRAILER (Continued)** **S101592920**

EPA ID: Not reported
Comments: Not reported
Status: Inactive

---

**E13** **STATEWIDE PETROLEUM INC DBA YOSEMITE 76** **HIST UST** **S113151935**
**NNW** **1700 E YOSEMITE AVE** **HAZNET** **N/A**
**1/8-1/4** **MANTECA, CA 95336** **HWTS**
**0.229 mi.**
**1208 ft.** **Site 1 of 9 in cluster E**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

HIST UST:

| | |
|---|---|
| Name: | UNION OIL SS5417 |
| Address: | 1700 EAST YOSEMITE AVENUE |
| City,State,Zip: | MANTECA, CA 95336 |
| File Number: | 0002B546 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B546.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 Thickness: | Not reported |
| Leak Detection: | 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 Thickness: | Not reported |
| Leak Detection: | Not reported |

Click here for Geo Tracker PDF:

HAZNET:

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC DBA YOSEMITE 76 |
| Address: | 1700 E YOSEMITE AVE |
| Address 2: | Not reported |
| City,State,Zip: | MANTECA, CA 953365007 |
| Contact: | SUNNY BHULLAR |
| Telephone: | 2098237676 |
| Mailing Name: | Not reported |
| Mailing Address: | 1700 E YOSEMITE AVE |

**STATEWIDE PETROLEUM INC DBA YOSEMITE 76 (Continued)** **S113151935**

| | |
|---|---|
| Year: | 2008 |
| Gepaid: | CAL000330588 |
| TSD EPA ID: | CAD980887418 |
| CA Waste Code: | 352 - Other organic solids |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.3 |

Additional Info:

| | |
|---|---|
| Year: | 2008 |
| Gen EPA ID: | CAL000330588 |
| Shipment Date: | 20080418 |
| Creation Date: | 6/25/2008 18:30:21 |
| Receipt Date: | 20080424 |
| Manifest ID: | 002390088JJK |
| Trans EPA ID: | CAD982413262 |
| Trans Name: | EVERGREEN ENVIRONMENTAL SERVICES |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD980887418 |
| Trans Name: | EVERGREEN OIL INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 352 - Other organic solids |
| RCRA Code: | D018 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.3 |
| Waste Quantity: | 600 |
| Quantity Unit: | P |
| Additional Code 1: | D001 |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HWTS:

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC DBA YOSEMITE 76 |
| Address: | 1700 E YOSEMITE AVE |
| Address 2: | Not reported |
| City,State,Zip: | MANTECA, CA 953365007 |
| EPA ID: | CAL000330588 |
| Inactive Date: | 06/30/2016 |
| Create Date: | 03/12/2008 |
| Last Act Date: | 01/12/2017 |
| Mailing Name: | Not reported |
| Mailing Address: | 1700 E YOSEMITE AVE |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | MANTECA, CA 953365007 |
| Owner Name: | STATEWIDE PETROLEUM INC |
| Owner Address: | 1700 E YOSEMITE AVE |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | MANTECA, CA 953365007 |
| Contact Name: | SUNNY BHULLAR |

**STATEWIDE PETROLEUM INC DBA YOSEMITE 76 (Continued)** **S113151935**

Contact Address: 1700 E YOSEMITE AVE
Contact Address 2: Not reported
City,State,Zip: MANTECA, CA 95336

NAICS:
EPA ID: CAL000330588
Create Date: 2008-03-12 11:53:08.933
NAICS Code: 44719
NAICS Description: Other Gasoline Stations
Issued EPA ID Date: 2008-03-12 11:53:08.88700
Inactive Date: 2016-06-30 00:00:00
Facility Name: STATEWIDE PETROLEUM INC DBA YOSEMITE 76
Facility Address: 1700 E YOSEMITE AVE
Facility Address 2: Not reported
Facility City: MANTECA
Facility County: Not reported
Facility State: CA
Facility Zip: 953365007

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**E14** **UNION OIL SS #5417** **HIST UST** **U001606310**
**NNW** **1700 E YOSEMITE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.229 mi.**
**1208 ft.** **Site 2 of 9 in cluster E**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

HIST UST:
Name: UNION OIL SS #5417
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000031202
Facility Type: Gas Station
Other Type: Not reported
Contact Name: JAMES J. MC CARTHY
Telephone: 2092394398
Owner Name: UNION OIL CO.
Owner Address: 1 CALIFORNIA ST. SUITE 2700
Owner City,St,Zip: SAN FRANCISCO, CA 94111
Total Tanks: 0003

Tank Num: 001
Container Num: 5417-1-1
Year Installed: 1965
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 5417-2-1
Year Installed: 1965
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM

**UNION OIL SS #5417 (Continued)** **U001606310**

Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 5417-4-1
Year Installed: Not reported
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

---

**E15** **UNION #5417** **LUST** **S104403597**
**NNW** **1700 YOSEMITE AVE E** **Cortese** **N/A**
**1/8-1/4** **MANTECA, CA 95336** **HIST CORTESE**
**0.229 mi.** **CERS**
**1208 ft.** **Site 3 of 9 in cluster E**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

LUST REG 5:
Name: UNION #5417
Address: 1700 YOSEMITE AVE E
City: MANTECA
Region: 5
Status: Case Closed
Case Number: 391000
Case Type: Soil only
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

LUST:
Name: UNION #5417
Address: 1700 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700820
Global Id: T0607700820
Latitude: 37.7972279
Longitude: -121.189781
Status: Completed - Case Closed
Status Date: 09/28/1999
Case Worker: Not reported
RB Case Number: 391000
Local Agency: Not reported
File Location: Not reported
Local Case Number: 507794
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700820
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)

**UNION #5417 (Continued)** **S104403597**

Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700820
Action Type: Other
Date: 01/14/1998
Action: Leak Discovery

Global Id: T0607700820
Action Type: Other
Date: 01/14/1998
Action: Leak Reported

LUST:
Global Id: T0607700820
Status: Open - Case Begin Date
Status Date: 01/14/1998

Global Id: T0607700820
Status: Open - Site Assessment
Status Date: 01/14/1998

Global Id: T0607700820
Status: Completed - Case Closed
Status Date: 09/28/1999

CORTESE:
Name: UNION #5417
Address: 1700 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700820
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

**UNION #5417 (Continued)** **S104403597**

HIST CORTESE:

| | |
|---|---|
| edr_fname: | UNION #5417 |
| edr_fadd1: | 1700 YOSEMITE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Facility County Code: | 39 |
| Reg By: | LTNKA |
| Reg Id: | 391000 |

CERS:

| | |
|---|---|
| Name: | UNION #5417 |
| Address: | 1700 YOSEMITE AVE E |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 244732 |
| CERS ID: | T0607700820 |
| CERS Description: | Leaking Underground Storage Tank Cleanup Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S) |
| Entity Title: | Not reported |
| Affiliation Address: | 11020 SUN CENTER DRIVE #200 |
| Affiliation City: | RANCHO CORDOVA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

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**E16** **MANTECA VALERO** **UST** **U004023625**
**NNW** **1700 E YOSEMITE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.229 mi.**
**1208 ft.** **Site 4 of 9 in cluster E**

**Relative:** **Lower**

**Actual:** **47 ft.**

UST SAN JOAQUIN:

| | |
|---|---|
| Name: | MANTECA VALERO |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | SJ |
| Facility Id: | FA0003796 |
| Mail Address: | 1700 East Yosemite Avenue |
| Mail Address 2: | Not reported |
| Mail Care of: | Sunny Bhullar |
| Mail City,St,Zip: | Manteca, CA 95336 |
| Tank Rec ID: | TA0145401 |
| Tank Number: | 1 |
| Tank Status: | 02 - Inactive, non-billable |
| Tank Capacity: | 10000 |
| Product Type Desc: | 1a - REGULAR UNLEADED |
| Program Element: | 2360 |
| Decode for Program Element: | 2360 - UST - PER TANK FEE |
| Chemical Form: | (none) |
| CAS#: | Not reported |
| CERS ID: | 10181431 |
| Cross Ref Tank ID: | Not reported |

**MANTECA VALERO (Continued)** **U004023625**

LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 37.7975027779
Longitude: -121.1897790975

Tank Rec ID: TA0145402
Tank Number: 2
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 10000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2360
Decode for Program Element: 2360 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181431
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 37.7975027779
Longitude: -121.1897790975

Tank Rec ID: TA0145403
Tank Number: 3
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 280
Product Type Desc: 09 - OTHER PETROLEUM
Program Element: 2360
Decode for Program Element: 2360 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181431
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 37.7975027779
Longitude: -121.1897790975

Tank Rec ID: TA0145404
Tank Number: 4
Tank Status: 01 - Active, billable
Tank Capacity: 12000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2360
Decode for Program Element: 2360 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181431
Cross Ref Tank ID: Not reported

**MANTECA VALERO (Continued)** **U004023625**

LEA ID: 1
Common Name: GASOLINE
Date Installed: 6/10/1987
Date of Closure: Not reported
Latitude: 37.7975027779
Longitude: -121.1897790975

Tank Rec ID: TA0145405
Tank Number: 5
Tank Status: 01 - Active, billable
Tank Capacity: 12000
Product Type Desc: 1b - PREMIUM UNLEADED
Program Element: 2360
Decode for Program Element: 2360 - UST - PER TANK FEE
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10181431
Cross Ref Tank ID: Not reported
LEA ID: 1
Common Name: GASOLINE
Date Installed: 6/10/1987
Date of Closure: Not reported
Latitude: 37.7975027779
Longitude: -121.1897790975

UST:
Name: MANTECA VALERO
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Facility ID: 4491
Permitting Agency: San Joaquin County Environmental Health
Latitude: 37.7972
Longitude: -121.1897

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**E17** **MANTECA VALERO** **CERS HAZ WASTE** **S121786186**
**NNW** **1700 E YOSEMITE AVE** **CERS TANKS** **N/A**
**1/8-1/4** **MANTECA, CA 95336** **CERS**
**0.229 mi.**
**1208 ft.** **Site 5 of 9 in cluster E**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

CERS HAZ WASTE:
Name: MANTECA VALERO
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Site ID: 46332
CERS ID: 10181431
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: MANTECA VALERO
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Site ID: 46332
CERS ID: 10181431
CERS Description: Underground Storage Tank

**MANTECA VALERO (Continued)** **S121786186**

CERS:

| | |
|---|---|
| Name: | MANTECA VALERO |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 46332 |
| CERS ID: | 10181431 |
| CERS Description: | Chemical Storage Facilities |

Violations:

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 09-07-2017 |
| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 04/30/2018. Annual monitoring system certification and leak detector testing needed to be performed by July 2017 and was completed in September 2017, 2 months past due. These tests are required once every 12 months. Take all necessary precautions to ensure testing is performed in a timely manner. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-29-2019 |
| Citation: | 23 CCR 16 2715(a)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(a)(2) |
| Violation Description: | Failure to submit the G Underground Storage Tank Statement of Understanding and Compliance Form.G |
| Violation Notes: | Returned to compliance on 05/01/2020. The Underground Storage Tank Statement of Understanding and Compliance Form was not found in CERS. This form must be uploaded to the California Environmental Reporting System (CERS). Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov and upload the Underground Storage Tank Statement of Understanding and Compliance Form for this facility |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 09-07-2017 |
| Citation: | 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h) |
| Violation Description: | Failure to have an approved UST Monitoring Plan. |
| Violation Notes: | Returned to compliance on 04/30/2018. The monitoring plan is not current. In UNDER DISPENSER CONTAINMENT (UDC) MONITORING, under UDC MONITORING STOPS FLOW OF PRODUCT AT DISPENSER, change "Yes" to "No." In RECORD KEEPING, under TANK INTEGRITY TESTING RESULTS, change "Yes" to "No". The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make |

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| | the necessary changes, and submit for review by the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 07-29-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Operations/Maintenance - General |
| Violation Notes: | Returned to compliance on 07/29/2013. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 09-07-2017 |
| Citation: | 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i) |
| Violation Description: | Failure to have a UST Monitoring Plan available on site. |
| Violation Notes: | Returned to compliance on 04/30/2018. An approved copy of the monitoring plans were not available for inspection. A copy of these plans shall be accessible on site at all times. Immediately locate and retain a copy on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | 23 CCR 16 2712(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(f) |
| Violation Description: | Failure to implement the corrections specified in the inspection report within 30 calendar days of receiving an inspection report from either the UPA or special inspector. |
| Violation Notes: | Returned to compliance on 08/30/2018. An inspection was last done on 9/7/17 and an inspection report was issued identifying information to be submitted to bring this site into compliance. This information was required to be submitted by 10/17/17. This information was received on 4/30/18 resulting in a non-compliant status for this facility. An operator that receives an inspection report shall have 30 days to submit a written response that includes a statement documenting corrective actions taken or proposing corrective actions which will be taken. Ensure that a written response documenting corrective actions taken or proposed is submitted within 30 days of receiving an inspection report. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, |

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| | Section(s) Multiple |
| Violation Description: | UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section. |
| Violation Notes: | Returned to compliance on 08/02/2018. Liquid was observed in the 87 product Submersible turbine pump (STP) sump and in Under Dispenser (UDC) 1/2. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed approximately half of a gallon of liquid from the 87 product STP sump and approximately one cup of liquid from UDC 1/2. Ensure that all sumps and annular spaces are maintained free of liquid. This was corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 08/30/2018. Annual monitoring system certification and leak detector testing were performed on 7/20/12, 7/29/13, 7/31/14, 7/16/2015, 8/16/16, 9/7/17. Testing shall be done on the month of July or before to avoid being late. Today's inspection was conducted on 8/2/18 making these test late. Take all necessary precautions to ensure testing is performed in a timely manner. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-16-2016 |
| Citation: | HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2 |
| Violation Description: | Failure to test the spill bucket annually. |
| Violation Notes: | Returned to compliance on 08/23/2016. Annual spill container testing was last performed on July 16, 2015 and was completed on August 16, 2016 , one months past due. This test is required once every 12 months. Take all necessary precautions to ensure testing is performed in a timely manner. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 07-29-2013 |
| Citation: | HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections |
| Violation Description: | UST Program - Design/Construction - General |
| Violation Notes: | Returned to compliance on 07/29/2013. |
| Violation Division: | San Joaquin County Environmental Health |

**MANTECA VALERO (Continued)** **S121786186**

Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 08-29-2019
Citation: 23 CCR 16 2712(b)(1)(G) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(1)(G)
Violation Description: Failure to comply with one or more of the following overfill prevention equipment requirements: Alert the transfer operator when the tank is 90 percent full by restricting the flow into the tank or triggering an audible and visual alarm; or Restrict delivery of flow to the tank at least 30 minutes before the tank overfills, provided the restriction occurs when the tank is filled to no more than 95 percent of capacity; and activate an audible alarm at least five minutes before the tank overfills; or Provide positive shut-off of flow to the tank when the tank is filled to no more than 95 percent of capacity; or Provide positive shut-off of flow to the tank so that none of the fittings located on the top of the tank are exposed to product due to overfilling. Install/retrofit overfill prevention equipment that does not use flow restrictors on vent piping to meet overfill prevention equipment requirements when the overfill prevention equipment is installed, repaired, or replaced on and after October 1,- 2018. For USTs installed before October 1, 2018, perform an inspection by October 13, 2018 and every 36 months thereafter. For USTs installed on and after October- 1,- 2018, perform an inspection at installation and every 36 months thereafter. Inspected within 30 days after a repair to the overfill prevention equipment. Inspected using an applicable manufacturer guidelines, industry codes, engineering standards, or a method approved by a professional engineer. Inspected by a certified UST service technician. Maintain records of overfill prevention equipment inspection for 36 months.
Violation Notes: Overfill prevention testing has not been conducted. This testing was required to be conducted by October 13, 2018. Immediately schedule this testing and provide 48 hours notification to the EHD. Ensure all future testing is conducted within required time frames.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 07-16-2015
Citation: HSC 6.7 25291(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(e)
Violation Description: Failure to remove, contain, analyze, and dispose of properly, water removed from the secondary containment by the owner or operator.
Violation Notes: Returned to compliance on 07/16/2015. Liquid was observed in the 87 STP sump on the north and south side. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed one cup of liquid from the 87 STP sump. Ensure that all sumps and annular spaces are maintained free of liquid. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 07-16-2015 |
| Citation: | 23 CCR 16 2636(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(2) |
| Violation Description: | Failure of the pressurized piping to meet one or more of the following requirements: monitored at least hourly with the capability of detecting a release of 3.0 gallons per hour, and will restrict the flow of product through the piping or trigger an alarm when a release occurs. |
| Violation Notes: | Returned to compliance on 07/16/2015. The 91 VMI line leak detector failed to detect a leak when tested. All line leak detectors shall be capable of detecting a 3-gallon per hour leak at 10 psi. The service technician adjusted the leak detector, retested it, and it passed. This was corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |

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|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 07-06-2015 |
| Citation: | HSC 6.95 25505(a)(4) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)(4) |
| Violation Description: | Failure to provide initial and annual training to all employees in safety procedures in the event of a release or threatened release of a hazardous material or failure to document and maintain training records for a minimum of three years. |
| Violation Notes: | Returned to compliance on 08/04/2015. Employee training records were unavailable for review at time of inspection . The business plan shall include provisions for ensuring that appropriate personnel receive initial and annual refresher training. This training shall be documented electronically or by hard copy and shall be made available for a minimum of three years. Immediately provide employee training for appropriate personnel and submit a copy of the training records to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 07-31-2014 |
| Citation: | Un-Specified |
| Violation Description: | UST Program - Administration/Documentation - For use of Local Ordinance only |
| Violation Notes: | Returned to compliance on 07/31/2014. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | 23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712 |
| Violation Description: | Failure to comply with any of the applicable requirements of the |

**MANTECA VALERO (Continued)** **S121786186**

permit issued for the operation of the UST system.
Violation Notes: Returned to compliance on 08/30/2018. A copy of the UST operating permit was not found on site. A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. Immediately obtain a copy of the permit and retain it on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 07-31-2014
Citation: Un-Specified
Violation Description: UST Program - Operations/Maintenance - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 07/31/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 07-29-2013
Citation: HSC 6.7 Multiple Sections - California Health and Safety Code, Chapter 6.7, Section(s) Multiple Sections
Violation Description: UST Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 07/29/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 09-07-2017
Citation: HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2
Violation Description: Failure to test the spill bucket annually.
Violation Notes: Returned to compliance on 04/30/2018. Annual spill container testing needed to be performed by July 2017 and was completed in September 2017, 2 months past due. These tests are required once every 12 months. Take all necessary precautions to ensure testing is performed in a timely manner.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 08-29-2019
Citation: 23 CCR 16 2715(c)(4) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(4)
Violation Description: Failure to maintain a list of employees trained by the designated operator on-site or off-site at a readily available location, if approved by the UPA. For training that occurs on or after October 1, 2018, failure to maintain a copy of the "Facility Employee Training Certificate" on-site or off-site at a readily available location, if approved by the UPA.

**MANTECA VALERO (Continued)** **S121786186**

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|---|---|
| Violation Notes: | The Facility Employee Training Certificate dated 10/30/18 contained no "initial training dates" and the "date of assuming responsibility as a facility employee" for listed employees ( Wagma Abdul, Hasina Nasir and Navjot). All site employees must be trained prior to taking responsibility as a facility employee if after October 1, 2018, or within 30 days of hire if prior to October 1, 2018. The Facility Employee Training Certificate shall contain accurate information for all employees trained. Update the Facility Employee Training Certificate to contain the accurate information and submit a copy of the updated form to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 09-07-2017 |
| Citation: | 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a) |
| Violation Description: | Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity. |
| Violation Notes: | Returned to compliance on 09/07/2017. The 7/8 under dispenser containment (UDC) unit contained a 208 sensor that had fallen diagonally and was not able to detect a leak at the earliest opportunity. Monitoring equipment shall be maintained to be able to detect a leak at the earliest opportunity. The sensor was set up correctly by the service technician. Ensure that all monitoring equipment is maintained to detect a leak at the earliest opportunity. This was corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-29-2019 |
| Citation: | HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34 |
| Violation Description: | Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance. |
| Violation Notes: | Returned to compliance on 05/01/2020. Financial responsibility documents submitted to the EHD a copy was not available on site during inspection. The financial responsibility documents on site are dated 01/15/2018 and the chief financial officer letter dated 4/30/2018. Current financial responsibility documents are required to be submitted annually and maintain a copy on site. Immediately locate the required documents and ensure a copy is available on site for inspection at any time. . |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-16-2016 |
| Citation: | 23 CCR 16 2715(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(i) |

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| Violation Description: | Failure to have a properly qualified service technician test leak detection equipment as required every 12 months (vapor, pressure, hydrostatic (VPH) system, sensors, line-leak detectors (LLD), automatic tank gauge (ATG), etc.). |
| Violation Notes: | Returned to compliance on 08/23/2016. Annual monitoring system certification and leak detector testing were last performed on July 16, 2015 and was completed on August 16, 2016, one months past due. The leak detector test has not been completed. These tests are required once every 12 months. Take all necessary precautions to ensure testing is performed in a timely manner. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | HSC 6.7 25284.2 - California Health and Safety Code, Chapter 6.7, Section(s) 25284.2 |
| Violation Description: | Failure to test the spill bucket annually. |
| Violation Notes: | Returned to compliance on 08/30/2018. Annual spill container testing was last performed on 7/20/12, 7/29/13, 7/31/14, 7/16/2015, 8/16/16, 9/7/17. Testing shall be done on the month of July or before to avoid being late. Today's inspection was conducted on 8/2/18 making this test late. Take all necessary precautions to ensure testing is performed in a timely manner. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-02-2018 |
| Citation: | 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i) |
| Violation Description: | Failure to have current UST Monitoring Plan available on site. |
| Violation Notes: | Returned to compliance on 08/02/2018. An approved copy of the monitoring plans were not available for inspection. A copy of these approved plans shall be accessible on site at all times. Immediately locate and retain an approved copy on site. The cashier on site was able to make the corrections to the monitoring plan while inspector was on site. This was corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | UST |
| Violation Source: | CERS |
| | |
| Site ID: | 46332 |
| Site Name: | Manteca Valero |
| Violation Date: | 08-16-2016 |
| Citation: | 23 CCR 16 2632, 2634, 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632, 2634, 2712(b) |
| Violation Description: | Failure to maintain monitoring and maintenance records (e.g., alarm logs) and/or maintain records of appropriate follow-up actions. |
| Violation Notes: | Returned to compliance on 08/16/2016. Liquid was observed in the 87 STP sump on the north and south side. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed 1/4 |

**MANTECA VALERO (Continued)** **S121786186**

gallon of liquid from the 87 STP sump. Ensure that all sumps and annular spaces are maintained free of liquid. This was corrected on site.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 05-02-2017
Citation: 23 CCR 16 2637 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637
Violation Description: Failure to conduct secondary containment testing, or one or more of the following requirements: Perform the test within six months of installation and every 36 months thereafter.Use a procedure that demonstrates the system works as well as at installation.Use applicable manufacturer guidelines, industry codes, engineering standard, or professional engineer approval.Performed by a certified service technician or a licensed tank tester.
Violation Notes: Returned to compliance on 05/12/2017. The San Joaquin County Environmental Health Department has been informed on 5-1-2017 that the secondary containment testing has not been completed yet as required, per Sunny Bhullar (facility's primary environmental contact). The secondary containment testing was last performed on 12-11-2013 and was due by 12-11-2016, and is 5 months past due. Secondary containment testing is required once every 36 months. Immediately conduct this test and submit the testing results to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 08-02-2018
Citation: 23 CCR 16 2715(f)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)(2)
Violation Description: Failure to have at least one facility employee present during operating hours that has been trained in the proper operation and maintenance of the UST system by a designated operator (DO).
Violation Notes: Returned to compliance on 08/30/2018. The designated operator employee training did not indicated the hire dates for the employees that she has trained. The designated operator shall train facility employees for which he or she is responsible in the proper operation and maintenance of the UST system once every 12 months. The training shall include, but is not limited to: 1. Operation of the UST system in a manner consistent with the facilityG s best management practices 2. EmployeeG s role with regard to monitoring equipment as specified in the facilityG s monitoring plan 3. EmployeeG s role with regard to spills and overfills as specified in the facilityG s response plan 4. Name of the contact person(s) for emergencies and monitoring equipment alarms Ensure that employees have been trained by the designated operator, maintain the list on site, and submit a copy of the training records to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

**MANTECA VALERO (Continued)** **S121786186**

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 09-07-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 04/30/2018. UST Tank Information forms for the 87 grade and the 91 grade tanks are not current in CERS. In TANK CONSTRUCTION, under OVERFILL PROTECTION, change 'Yes" to "No" for audible/visual alarms. In VENT, VAPOR RECOVERY (VR), AND RISER/ FILL PIPE PIPING CONSTRUCTION, under VENT SECONDARY CONTAINMENT, change FIBERGLASS to NONE. Under VAPOR RECOVERY SECONDARY CONTAINMENT, change FIBERGLASS to NONE. Under RISER PIPE SECONDARY CONTAINMENT, change FIBERGLASS to NONE. Under VENT PIPING TRANSITION SUMPS, change SINGLE-WALLED to NONE. Under FILL COMPONENTS INSTALLED, change "Yes" to "No" for the containment sump. Any change of information must be updated in CERS within 30 days of the changes. Immediately log into CERS, update the required information, and submit for review by the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Violation Date: 07-31-2014
Citation: Un-Specified
Violation Description: UST Program - Design/Construction - For use of Local Ordinance only.
Violation Notes: Returned to compliance on 07/31/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-29-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 28, 2019. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided: Return to Compliance Certification form and a list of scheduled CUPA classes. e mail report to : sunnybhullar1@yahoo.com Violations recorded:
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the

**MANTECA VALERO (Continued)** **S121786186**

day of inspection. The EHD has written the complete report which replaces the initial checklist. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, within 30 days of receiving the complete inspection report.

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-25-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: No violations were found at time of inspection. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 05-02-2017
Violations Found: Yes
Eval Type: Other, not routine, done by local agency
Eval Notes: This is an in office inspection report issued for the violation noted above. Immediately address the outstanding violation, complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been taken, and any supporting paperwork. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-06-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 8/6/2015. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP

**MANTECA VALERO (Continued)** **S121786186**

Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-16-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by August 15, 2015 Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS. NOTES: -Verified all sensors at lowest point.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-29-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-02-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 1st, 2018. Document reviewed: Monitoring system certification test results 2015, 2016, 2017, secondary containment test results 2017, employee training, response plan, maintenance records, monitoring plan, and designated operator monthly inspection reports from August 2017- July 2018. Documents provided: Return to compliance certification Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial

**MANTECA VALERO (Continued)** **S121786186**

Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 15, 2015 . Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. NOTES: - No violations - The facility generates solid waste contaminated with gasoline. - The facility did not have any waste disposed of in 2015 - The facility did not have an emergency coordinator or modified contingency plan. This was corrected on site. - Provided SJCEHD CUPA class schedule - Provided Return to Compliance Certification
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-16-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by September 15, 2016 . Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the California Environmental Reporting System (CERS): UST Monitoring Site Plan, UST Certification of Financial Responsibility, UST Response Plan, UST Letter from Chief Financial Officer (if applicable), and the Owner Statement of Designated Operator Compliance. The UST Owner/Operator: Written Agreement, if applicable, can be stored at the facility or uploaded into CERS. NOTES: - Leak detectors because the service technician was not certified. Will reschedule leak detector test with certified technician at a later date at EHD hourly rate. - Verified sensors at lowest point.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 08-23-2016
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: This is a billable (at the current EHD hourly rate) follow up inspection to the original monitoring system certification and routine

**MANTECA VALERO (Continued)** **S121786186**

UST inspection conducted on 8-16-2016. The today's inspection was conducted to test the line leak detectors not tested during the routine inspection due to the lack of the appropriate VMI certification for the onsite technician. No additional violations were noted at the time of today's inspection, both onsite line leak detectors (87 and 91) were tested with passing results. Please refer to the original UST inspection report issued on 8-16-2016 for any outstanding violations. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by 9-15-2016. Please be aware that as of January 1, 2014, facility operators are required to upload the following UST program documents into the [Truncated]

Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 05-02-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 07-06-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 07-16-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

**MANTECA VALERO (Continued)** **S121786186**

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 07-29-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 07-31-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

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Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
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Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 08-16-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 46332
Site Name: Manteca Valero
Site Address: 1700 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336

**MANTECA VALERO (Continued)** **S121786186**

Enf Action Date: 09-07-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 46332
Facility Name: Manteca Valero
Env Int Type Code: HWG
Program ID: 10181431
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 37.797230
Longitude: -121.189781

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Joaquin Cnty Env Health
Entity Title: Not reported
Affiliation Address: 1868 East Hazelton Avenue
Affiliation City: Stockton
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95205-6232
Affiliation Phone: (209) 468-3420

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 1700 East Yosemite Avenue
Affiliation City: Manteca
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95336
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: STATEWIDE PETROLEUM INC
Entity Title: Not reported
Affiliation Address: 1700 East Yosemite Avenue
Affiliation City: Manteca
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 95336
Affiliation Phone: (408) 230-8999

Affiliation Type Desc: UST Tank Operator
Entity Name: STATEWIDE PETROLEUM INC
Entity Title: Not reported
Affiliation Address: 1700 E YOSEMITE AVE
Affiliation City: MANTECA
Affiliation State: CA
Affiliation Country: United States

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 823-7676 |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Sunny Bhullar |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (408) 230-8999 |
| | |
| Affiliation Type Desc: | UST Tank Owner |
| Entity Name: | STATEWIDE PETROLEUM INC |
| Entity Title: | Not reported |
| Affiliation Address: | 1700 E YOSEMITE AVE |
| Affiliation City: | MANTECA |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (408) 230-8999 |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Stantec Consulting Services Inc. |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | UST Permit Applicant |
| Entity Name: | SUNNY BHULLAR |
| Entity Title: | PRESIDENT |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (408) 230-8999 |
| | |
| Affiliation Type Desc: | UST Property Owner Name |
| Entity Name: | STATEWIDE PETROLEUM INC |
| Entity Title: | Not reported |
| Affiliation Address: | 1700 E YOSEMITE AVE |
| Affiliation City: | MANTECA |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (408) 230-8999 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Sunny Bhullar |
| Entity Title: | Not reported |
| Affiliation Address: | 1700 East Yosemite Avenue |

**MANTECA VALERO (Continued)** **S121786186**

| | |
|---|---|
| Affiliation City: | Manteca |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Sunny Bhullar |
| Entity Title: | President |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | STATEWIDE PETROLEUM INC |
| Entity Title: | Not reported |
| Affiliation Address: | 1700 East Yosemite Avenue |
| Affiliation City: | Manteca |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (408) 230-8999 |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | STATEWIDE PETROLEUM INC |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

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**E18** **UNION OIL SS# 5417** **HIST UST** **U001606311**
**NNW** **1700 E YOSEMITE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.229 mi.**
**1208 ft.** **Site 6 of 9 in cluster E**

**Relative:** HIST UST:
**Lower**

**Actual:**
**47 ft.**

| | |
|---|---|
| Name: | UNION OIL SS# 5417 |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| File Number: | Not reported |
| URL: | Not reported |
| Region: | STATE |
| Facility ID: | 00000060765 |
| Facility Type: | Gas Station |
| Other Type: | Not reported |
| Contact Name: | JAMES J. MCCARTHY |
| Telephone: | 2092394398 |
| Owner Name: | UNION OIL CO. |
| Owner Address: | 1 CALIFORNIA ST., SUITE 2700 |
| Owner City,St,Zip: | SAN FRANCISCO, CA 94111 |

**UNION OIL SS# 5417 (Continued)** **U001606311**

Total Tanks: 0001

Tank Num: 001
Container Num: 5417-10-1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: WASTE
Type of Fuel: Not reported
Container Construction Thickness: 6
Leak Detection: Visual

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**E19** **UNOCAL #5417** **SWEEPS UST** **S101593483**
**NNW** **1700 E YOSEMITE AVE** **CA FID UST** **N/A**
**1/8-1/4** **MANTECA, CA 95336** **EMI**
**0.229 mi.** **CERS**
**1208 ft.** **Site 7 of 9 in cluster E**

**Relative:** **Lower**
**Actual:** **47 ft.**

SWEEPS UST:

Name: UNOCAL #5417
Address: 1700 E YOSEMITE AVE
City: MANTECA
Status: Not reported
Comp Number: 1454
Number: Not reported
Board Of Equalization: 44-001057
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001454-000001
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Name: UNOCAL #5417
Address: 1700 E YOSEMITE AVE
City: MANTECA
Status: Not reported
Comp Number: 1454
Number: Not reported
Board Of Equalization: 44-001057
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001454-000002
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

**UNOCAL #5417 (Continued)** **S101593483**

| | |
|---|---|
| Name: | UNOCAL #5417 |
| Address: | 1700 E YOSEMITE AVE |
| City: | MANTECA |
| Status: | Not reported |
| Comp Number: | 1454 |
| Number: | Not reported |
| Board Of Equalization: | 44-001057 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 39-000-001454-000003 |
| Tank Status: | Not reported |
| Capacity: | 280 |
| Active Date: | Not reported |
| Tank Use: | OIL |
| STG: | WASTE |
| Content: | WASTE OIL |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | UNOCAL #5417 |
| Address: | 1700 E YOSEMITE AVE |
| City: | MANTECA |
| Status: | Active |
| Comp Number: | 1454 |
| Number: | 1 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 06-16-92 |
| Action Date: | 06-16-92 |
| Created Date: | 07-12-88 |
| Owner Tank Id: | 004 |
| SWRCB Tank Id: | 39-000-001454-000004 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 06-16-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |
| Content: | REG UNLEADED |
| Number Of Tanks: | 2 |

| | |
|---|---|
| Name: | UNOCAL #5417 |
| Address: | 1700 E YOSEMITE AVE |
| City: | MANTECA |
| Status: | Active |
| Comp Number: | 1454 |
| Number: | 1 |
| Board Of Equalization: | 44-001057 |
| Referral Date: | 06-16-92 |
| Action Date: | 06-16-92 |
| Created Date: | 07-12-88 |
| Owner Tank Id: | 005 |
| SWRCB Tank Id: | 39-000-001454-000005 |
| Tank Status: | A |
| Capacity: | 12000 |
| Active Date: | 06-16-92 |
| Tank Use: | M.V. FUEL |
| STG: | P |

**UNOCAL #5417 (Continued)** **S101593483**

Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39004170
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2094737337
Mail To: Not reported
Mailing Address: 911 WILSHIRE BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: MANTECA 95336
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

EMI:
Name: CONOCOPHILLIPS COMPANY - 255417
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Year: 2002
County Code: 39
Air Basin: SJV
Facility ID: 981
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1
Reactive Organic Gases Tons/Yr: 1
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers and Smllr Tons/Yr: 0

Name: CONOCOPHILLIPS COMPANY - 255417
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Year: 2003
County Code: 39
Air Basin: SJV
Facility ID: 981
Air District Name: SJU
SIC Code: 5541
Air District Name: SAN JOAQUIN VALLEY UNIFIED APCD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 1

**UNOCAL #5417 (Continued)** **S101593483**

| | |
|---|---|
| Reactive Organic Gases Tons/Yr: | 1 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CONOCOPHILLIPS COMPANY - 255417 |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2004 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.632868612 |
| Reactive Organic Gases Tons/Yr: | 0.629718144 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CONOCOPHILLIPS COMPANY - 255417 |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2005 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | .6328686115675156482 |
| Reactive Organic Gases Tons/Yr: | .62971814355 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | CONOCOPHILLIPS COMPANY - 255417 |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2006 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |

**UNOCAL #5417 (Continued)** **S101593483**

| | |
|---|---|
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | .6328686115675156482 |
| Reactive Organic Gases Tons/Yr: | .62971814355 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2011 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.35447824666 |
| Reactive Organic Gases Tons/Yr: | 0.3525535 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2012 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.35447824666 |
| Reactive Organic Gases Tons/Yr: | 0.3525535 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2013 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |

**UNOCAL #5417 (Continued)** **S101593483**

| | |
|---|---|
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY UNIFIED APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24705653 |
| Reactive Organic Gases Tons/Yr: | 0.24705653 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2014 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24701851968 |
| Reactive Organic Gases Tons/Yr: | 0.24701851968 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2015 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24705653 |
| Reactive Organic Gases Tons/Yr: | 0.24705653 |
| Carbon Monoxide Emissions Tons/Yr: | 0 |
| NOX - Oxides of Nitrogen Tons/Yr: | 0 |
| SOX - Oxides of Sulphur Tons/Yr: | 0 |
| Particulate Matter Tons/Yr: | 0 |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | 0 |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2016 |

**UNOCAL #5417 (Continued)** **S101593483**

| | |
|---|---|
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24705653 |
| Reactive Organic Gases Tons/Yr: | 0.24705653 |
| Carbon Monoxide Emissions Tons/Yr: | Not reported |
| NOX - Oxides of Nitrogen Tons/Yr: | Not reported |
| SOX - Oxides of Sulphur Tons/Yr: | Not reported |
| Particulate Matter Tons/Yr: | Not reported |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | Not reported |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2017 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24705653 |
| Reactive Organic Gases Tons/Yr: | 0.24705653 |
| Carbon Monoxide Emissions Tons/Yr: | Not reported |
| NOX - Oxides of Nitrogen Tons/Yr: | Not reported |
| SOX - Oxides of Sulphur Tons/Yr: | Not reported |
| Particulate Matter Tons/Yr: | Not reported |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | Not reported |

| | |
|---|---|
| Name: | STATEWIDE PETROLEUM INC |
| Address: | 1700 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Year: | 2018 |
| County Code: | 39 |
| Air Basin: | SJV |
| Facility ID: | 981 |
| Air District Name: | SJU |
| SIC Code: | 5541 |
| Air District Name: | SAN JOAQUIN VALLEY APCD |
| Community Health Air Pollution Info System: | Not reported |
| Consolidated Emission Reporting Rule: | Not reported |
| Total Organic Hydrocarbon Gases Tons/Yr: | 0.24705653 |
| Reactive Organic Gases Tons/Yr: | 0.24705653 |
| Carbon Monoxide Emissions Tons/Yr: | Not reported |
| NOX - Oxides of Nitrogen Tons/Yr: | Not reported |
| SOX - Oxides of Sulphur Tons/Yr: | Not reported |
| Particulate Matter Tons/Yr: | Not reported |
| Part. Matter 10 Micrometers and Smllr Tons/Yr: | Not reported |

**UNOCAL #5417 (Continued)** **S101593483**

CERS:
Name: STATEWIDE PETROLEUM INC
Address: 1700 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Site ID: 462085
CERS ID: 110021116086
CERS Description: US EPA Air Emission Inventory System (EIS)

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**20**
**NE**
**1/8-1/4**
**0.231 mi.**
**1218 ft.**

**BONFIGLIO B** **HIST UST** **U001606155**
**18400 S AUSTIN RD** **N/A**
**MANTECA, CA 95336**

**Relative:**
**Higher**

**Actual:**
**49 ft.**

HIST UST:
Name: BONFIGLIO B
Address: 18400 S AUSTIN RD
City,State,Zip: MANTECA, CA 95336
File Number: 0002F9B7
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002F9B7.pdf
Region: STATE
Facility ID: 00000022673
Facility Type: Other
Other Type: FARM
Contact Name: SAME
Telephone: 2098232909
Owner Name: B. BONFIGLIO
Owner Address: 18400 S. AUSTIN RD.
Owner City,St,Zip: MANTECA, CA 95336
Total Tanks: 0002

Tank Num: 001
Container Num: #1
Year Installed: 1954
Tank Capacity: 00000400
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual, None

Tank Num: 002
Container Num: #2
Year Installed: 1970
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

**F21** **VINTAGE POOL SERVICE AND MORE** **CERS HAZ WASTE** **S121767634**
**NNW** **1780 E YOSEMITE AVE** **CERS** **N/A**
**1/8-1/4** **MANTECA, CA 95336** **HWTS**
**0.235 mi.**
**1239 ft.** **Site 1 of 2 in cluster F**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

CERS HAZ WASTE:
Name: VINTAGE POOL SERVICE AND MORE
Address: 1780 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Site ID: 365499
CERS ID: 10658281
CERS Description: Hazardous Waste Generator

CERS:
Name: VINTAGE POOL SERVICE AND MORE
Address: 1780 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
Site ID: 365499
CERS ID: 10658281
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 01/16/2020. Spilled powdered pool chemicals were observed inside the storage building located in the back of the parcel, adjacent to the northern property boundary. Mr. Walker said that the spilled material is "soda ash and baking soda". Also a white powdery substance was noted on the outside of the outdoor garbage container (closed top roll off dumpster) located adjacent to the eastern property boundary; one sample of the white substance located on the garbage container was collected by the EHD at the time of inspection. Any person who generates a waste shall determine if the waste is a hazardous waste. Immediately remove all the spilled materials, make a hazardous waste determination for the waste, and manage it according the Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes: Returned to compliance on 03/08/2016. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| | emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 08-10-2017 |
| Citation: | HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3) |
| Violation Description: | Failure to complete and electronically submit a site map with all required content. |
| Violation Notes: | Returned to compliance on 08/10/2017. The site map was missing storm drain locations and an evacuation staging area. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as G NA". This violation has been corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12 |
| Violation Description: | Failure to obtain and/or maintain an Active EPA ID. |
| Violation Notes: | Returned to compliance on 03/08/2016. This facility does not have a valid ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an ID number. If you or your business generates more than 100 kg of RCRA hazardous waste and/or more than one kg of acutely hazardous waste, then you need to obtain an EPA ID number. All others must obtain a State ID number. Go to the DTSC web site http://www.dtsc.ca.gov/IDManifest/PERMHWID.cfm for the form to apply for an ID number. Immediately obtain an ID number to manage hazardous waste and submit evidence to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple |
| Violation Description: | Haz Waste Generator Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 03/08/2016. A submission to the California |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

Electronic Reporting System (CERS) for the hazardous waste program has not been made. Beginning January 1, 2013, all businesses are required to submit all new (or any changes to existing) hazardous waste information online to the CERS at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33
Violation Description: Failure of the facility to test and maintain all communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment.
Violation Notes: Returned to compliance on 03/08/2016. Mr. Walker indicated that they donG t have any spill clean-up materials onsite and any accidental spills of muriatic acid or the liquid sodium hypochlorite solution are washed down (rinsed down) with water to the outdoor areas without any rinsate containerization or disposal. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. Immediately obtain all necessary spill control equipment, begin this practice, submit proof of correction to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a)
Violation Description: Failure to properly dispose of hazardous waste at an authorized location.
Violation Notes: Returned to compliance on 01/16/2020. 1) Four closed 5-gallon containers (at least one of them was visibly labeled as ProGuard Dichloro Granules) were observed inside the outdoor garbage container (closed top roll off dumpster- located adjacent to the eastern property boundary). Chlorine like odor was noted at the onsite solid waste container. Mr. Walker removed and opened one of the 5-gallon containers labeled ProGuard Dichloro Granules from the solid waste container. This container was half full with a mixture of leaves/needles, some white granules, and one white plastic lid/disc approximately 5-6 inches in diameter with some accumulation of white granules. (According to the ProGuard SDS, the LC50 (toxicity to fish) for this material is 0.28-2.4 mg/l (96 hour exposure)). Mr. Walker returned the removed container back to the solid waste container. He stated that the contents of this container were brought back from the customerG s pool and that his employees "bring back leaves and other stuff from peopleG s pools" and di
Violation Division: San Joaquin County Environmental Health

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 08-10-2017
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 08/10/2017. 432 gallon of muriatic acid and 500 gallons of gasoline were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. This violation has been corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 10/10/2016. At the time of inspection, it could not be demonstrated (not necessarily documented) that employees who handle hazardous waste were properly trained. The generator must ensure that all employees who handle hazardous waste are thoroughly familiar with proper waste handling and emergency procedures. Provide proof of training to the EHD for employees whose responsibilities include hazardous waste. A list of EHD free training classes was provided at the time of inspection. Submit proof of correction to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine hazardous waste inspection performed today 1-16-2020. No violations were cited. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Official inspection report, free cupa classes flier. Waste streams found: Used liquid chlorine, soda ash, Cyanuric acid, universal waste fluorescent lights, universal waste aerosols, universal waste electronic waste.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 02-05-2016 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | Onsite in response to a complaint. In the course of onsite inspection it was determined that this facility is a hazardous waste generator, and as such a hazardous waste inspection was conducted and this facility was added on as a hazardous waste generator. A Notice to Abate Immediately was left onsite at the time of inspection. An inspection report was prepared and provided (via email and via certified mail) for the onsite inspection conducted on 2-5-2016. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation (unless it required an immediate action), and any supporting paperwork, 30- days from receipt of this inspection report. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be [Truncated] |
| Eval Division: | San Joaquin County Environmental Health |
| Eval Program: | HW |
| Eval Source: | CERS |

| | |
|---|---|
| Eval General Type: | Compliance Evaluation Inspection |
| Eval Date: | 08-10-2017 |
| Violations Found: | Yes |
| Eval Type: | Routine done by local agency |
| Eval Notes: | All violations were corrected on site. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. |
| Eval Division: | San Joaquin County Environmental Health |
| Eval Program: | HMRRP |
| Eval Source: | CERS |

Enforcement Action:

| | |
|---|---|
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Site Address: | 1780 E YOSEMITE AVE |
| Site City: | MANTECA |
| Site Zip: | 95336 |
| Enf Action Date: | 02-05-2016 |
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | San Joaquin County Environmental Health |
| Enf Action Program: | HW |
| Enf Action Source: | CERS |

| | |
|---|---|
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Site Address: | 1780 E YOSEMITE AVE |
| Site City: | MANTECA |
| Site Zip: | 95336 |
| Enf Action Date: | 08-10-2017 |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| Enf Action Type: | Notice of Violation (Unified Program) |
| Enf Action Description: | Notice of Violation Issued by the Inspector at the Time of Inspection |
| Enf Action Notes: | Not reported |
| Enf Action Division: | San Joaquin County Environmental Health |
| Enf Action Program: | HMRRP |
| Enf Action Source: | CERS |

Coordinates:

| | |
|---|---|
| Site ID: | 365499 |
| Facility Name: | Vintage Pool Service and More |
| Env Int Type Code: | HWG |
| Program ID: | 10658281 |
| Coord Name: | Not reported |
| Ref Point Type Desc: | Center of a facility or station. |
| Latitude: | 37.797000 |
| Longitude: | -121.188320 |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | San Joaquin Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1868 East Hazelton Avenue |
| Affiliation City: | Stockton |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95205-6232 |
| Affiliation Phone: | (209) 468-3420 |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Debbie Martin |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Kim Walker |
| Entity Title: | Owner |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| Affiliation Phone: | (209) 599-8300 |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95366 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | 1780 E Yosemite Ave |
| Affiliation City: | Manteca |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 599-8300 |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Vintage Pool Service and More |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 599-8300 |
| | |
| Name: | VINTAGE POOL SERVICE AND MORE |
| Address: | 1780 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 365499 |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

CERS ID: 110054273166
CERS Description: US EPA Air Emission Inventory System (EIS)

Violations:

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)
Violation Description: Failure to determine if the waste generated is a hazardous waste and to maintain analysis results for three years.
Violation Notes: Returned to compliance on 01/16/2020. Spilled powdered pool chemicals were observed inside the storage building located in the back of the parcel, adjacent to the northern property boundary. Mr. Walker said that the spilled material is "soda ash and baking soda". Also a white powdery substance was noted on the outside of the outdoor garbage container (closed top roll off dumpster) located adjacent to the eastern property boundary; one sample of the white substance located on the garbage container was collected by the EHD at the time of inspection. Any person who generates a waste shall determine if the waste is a hazardous waste. Immediately remove all the spilled materials, make a hazardous waste determination for the waste, and manage it according the Title 22 hazardous waste regulations. Submit a statement and supporting documentation explaining how this waste was managed.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 40 CFR 1 262.34(d)(5)(ii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(ii)
Violation Description: Failure to post, next to the telephone, Emergency Information (SQG) containing the location of emergency equipment, contact names and numbers.
Violation Notes: Returned to compliance on 03/08/2016. An emergency coordinator and modified contingency plan information is lacking. There must be at least one emergency coordinator on site or on call to coordinate emergency response measures, and the following information must be posted by a phone: the name and phone number of the emergency coordinator; location of fire extinguishers, spill control equipment, and if present, fire alarm; and the phone number of the fire department, unless the facility has a direct alarm. Immediately appoint an emergency coordinator and post the required information by a phone. A form is provided that can be used for this purpose.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 08-10-2017
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit a site map with all required content.

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| Violation Notes: | Returned to compliance on 08/10/2017. The site map was missing storm drain locations and an evacuation staging area. A site map shall contain a north orientation, loading areas, internal roads, adjacent streets, storm and sewer drains, access and exit points, emergency shutoffs, evacuation staging areas, hazardous material handling and storage areas, and emergency response equipment. If a site map element is not applicable for your facility then list it on the map and label as G NA". This violation has been corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12 |
| Violation Description: | Failure to obtain and/or maintain an Active EPA ID. |
| Violation Notes: | Returned to compliance on 03/08/2016. This facility does not have a valid ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an ID number. If you or your business generates more than 100 kg of RCRA hazardous waste and/or more than one kg of acutely hazardous waste, then you need to obtain an EPA ID number. All others must obtain a State ID number. Go to the DTSC web site http://www.dtsc.ca.gov/IDManifest/PERMHWID.cfm for the form to apply for an ID number. Immediately obtain an ID number to manage hazardous waste and submit evidence to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple |
| Violation Description: | Haz Waste Generator Program - Administration/Documentation - General |
| Violation Notes: | Returned to compliance on 03/08/2016. A submission to the California Electronic Reporting System (CERS) for the hazardous waste program has not been made. Beginning January 1, 2013, all businesses are required to submit all new (or any changes to existing) hazardous waste information online to the CERS at http://cers.calepa.ca.gov. Be sure to include your hazardous waste activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | 40 CFR 1 265.33 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.33 |
| Violation Description: | Failure of the facility to test and maintain all communications or alarm systems, fire protection equipment, spill control equipment, and |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| | decontamination equipment. |
| Violation Notes: | Returned to compliance on 03/08/2016. Mr. Walker indicated that they donG t have any spill clean-up materials onsite and any accidental spills of muriatic acid or the liquid sodium hypochlorite solution are washed down (rinsed down) with water to the outdoor areas without any rinsate containerization or disposal. All facility communications or alarm systems, fire protection equipment, spill control equipment, and decontamination equipment, where required, shall be tested and maintained as necessary to assure its proper operation in time of emergency. Immediately obtain all necessary spill control equipment, begin this practice, submit proof of correction to the EHD. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 02-05-2016 |
| Citation: | HSC 6.5 25189.5(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25189.5(a) |
| Violation Description: | Failure to properly dispose of hazardous waste at an authorized location. |
| Violation Notes: | Returned to compliance on 01/16/2020. 1) Four closed 5-gallon containers (at least one of them was visibly labeled as ProGuard Dichloro Granules) were observed inside the outdoor garbage container (closed top roll off dumpster- located adjacent to the eastern property boundary). Chlorine like odor was noted at the onsite solid waste container. Mr. Walker removed and opened one of the 5-gallon containers labeled ProGuard Dichloro Granules from the solid waste container. This container was half full with a mixture of leaves/needles, some white granules, and one white plastic lid/disc approximately 5-6 inches in diameter with some accumulation of white granules. (According to the ProGuard SDS, the LC50 (toxicity to fish) for this material is 0.28-2.4 mg/l (96 hour exposure)). Mr. Walker returned the removed container back to the solid waste container. He stated that the contents of this container were brought back from the customerG s pool and that his employees "bring back leaves and other stuff from peopleG s pools" and di |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |
| | |
| Site ID: | 365499 |
| Site Name: | Vintage Pool Service and More |
| Violation Date: | 08-10-2017 |
| Citation: | HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3) |
| Violation Description: | Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities. |
| Violation Notes: | Returned to compliance on 08/10/2017. 432 gallon of muriatic acid and 500 gallons of gasoline were found on site that have not been reported. Any material that meets or exceeds the reportable quantity shall be reported in the facility’s business plan. This violation has been corrected on site. |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HMRRP |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

Violation Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Violation Date: 02-05-2016
Citation: 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii)
Violation Description: Failure to ensure employees are familiar with the handling and compliance of hazardous waste regulations and emergency response.
Violation Notes: Returned to compliance on 10/10/2016. At the time of inspection, it could not be demonstrated (not necessarily documented) that employees who handle hazardous waste were properly trained. The generator must ensure that all employees who handle hazardous waste are thoroughly familiar with proper waste handling and emergency procedures. Provide proof of training to the EHD for employees whose responsibilities include hazardous waste. A list of EHD free training classes was provided at the time of inspection. Submit proof of correction to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-16-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Routine hazardous waste inspection performed today 1-16-2020. No violations were cited. Starting September 1, 2018, all in-office CERS help will be provided at EHD hourly rate ($152). To schedule an appointment, please call (209) 468-3420. Documents provided during inspection: Official inspection report, free cupa classes flier. Waste streams found: Used liquid chlorine, soda ash, Cyanuric acid, universal waste fluorescent lights, universal waste aerosols, universal waste electronic waste.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-05-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Onsite in response to a complaint. In the course of onsite inspection it was determined that this facility is a hazardous waste generator, and as such a hazardous waste inspection was conducted and this facility was added on as a hazardous waste generator. A Notice to Abate Immediately was left onsite at the time of inspection. An inspection report was prepared and provided (via email and via certified mail) for the onsite inspection conducted on 2-5-2016. Complete and submit a copy of the Return to Compliance Certification form to the EHD with a statement documenting the corrective actions that have been or will be taken for each violation (unless it required an immediate action), and any supporting paperwork, 30- days from receipt of this inspection report. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

(CERS) at http://cers.calepa.ca.gov. Be [Truncated]
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 08-10-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: All violations were corrected on site. Please be aware as of January 1, 2013, all businesses are required to submit all hazardous materials information online to the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov. Be sure to include your hazardous material activity in the Businesses Activities section in CERS in addition to any other relevant activities and required fields.
Eval Division: San Joaquin County Environmental Health
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 365499
Site Name: Vintage Pool Service and More
Site Address: 1780 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 02-05-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 365499
Site Name: Vintage Pool Service and More
Site Address: 1780 E YOSEMITE AVE
Site City: MANTECA
Site Zip: 95336
Enf Action Date: 08-10-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 365499
Facility Name: Vintage Pool Service and More
Env Int Type Code: HWG
Program ID: 10658281
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 37.797000
Longitude: -121.188320

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | CUPA District |
| Entity Name: | San Joaquin Cnty Env Health |
| Entity Title: | Not reported |
| Affiliation Address: | 1868 East Hazelton Avenue |
| Affiliation City: | Stockton |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95205-6232 |
| Affiliation Phone: | (209) 468-3420 |

| | |
|---|---|
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Debbie Martin |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Identification Signer |
| Entity Name: | Kim Walker |
| Entity Title: | Owner |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Operator |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (209) 599-8300 |

| | |
|---|---|
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 95366 |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Legal Owner |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | 1780 E Yosemite Ave |
| Affiliation City: | Manteca |
| Affiliation State: | CA |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

| | |
|---|---|
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 599-8300 |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Vintage Pool Service and More |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Document Preparer |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | Kim Walker |
| Entity Title: | Not reported |
| Affiliation Address: | PO Box 336 |
| Affiliation City: | Ripon |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95336 |
| Affiliation Phone: | (209) 599-8300 |

HWTS:

| | |
|---|---|
| Name: | VINTAGE POOL SERVICE AND MORE |
| Address: | 1780 E YOSEMITE AVE |
| Address 2: | Not reported |
| City,State,Zip: | MANTECA, CA 953365007 |
| EPA ID: | CAL000414633 |
| Inactive Date: | Not reported |
| Create Date: | 02/25/2016 |
| Last Act Date: | 07/23/2020 |
| Mailing Name: | Not reported |
| Mailing Address: | P.O. BOX 336 |
| Mailing Address 2: | Not reported |
| Mailing City,State,Zip: | RIPON, CA 95366 |
| Owner Name: | BARRY WALKER |
| Owner Address: | P.O. BOX 336 |
| Owner Address 2: | Not reported |
| Owner City,State,Zip: | RIPON, CA 95366 |
| Contact Name: | KIM WALKER |
| Contact Address: | P.O. BOX 336 |
| Contact Address 2: | Not reported |
| City,State,Zip: | RIPON, CA 95366 |

**VINTAGE POOL SERVICE AND MORE (Continued)** **S121767634**

NAICS:

| | |
|---|---|
| EPA ID: | CAL000414633 |
| Create Date: | 2016-02-25 15:58:59.217 |
| NAICS Code: | 811111 |
| NAICS Description: | General Automotive Repair |
| Issued EPA ID Date: | 2016-02-25 15:58:59.20300 |
| Inactive Date: | Not reported |
| Facility Name: | VINTAGE POOL SERVICE AND MORE |
| Facility Address: | 1780 E YOSEMITE AVE |
| Facility Address 2: | Not reported |
| Facility City: | MANTECA |
| Facility County: | Not reported |
| Facility State: | CA |
| Facility Zip: | 953365007 |

---

**F22** **VINTAGE POOL SERVICE AND MORE** **RCRA NonGen / NLR** **1024854110**
**NNW** **1780 E YOSEMITE AVE** **CAL000414633**
**1/8-1/4** **MANTECA, CA 95336**
**0.235 mi.**
**1239 ft.** **Site 2 of 2 in cluster F**

**Relative:** **Lower**

**Actual:** **47 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2016-02-25 00:00:00.0 |
| Handler Name: | VINTAGE POOL SERVICE AND MORE |
| Handler Address: | 1780 E YOSEMITE AVE |
| Handler City,State,Zip: | MANTECA, CA 95336-5007 |
| EPA ID: | CAL000414633 |
| Contact Name: | BARRY WALKER |
| Contact Address: | P.O. BOX 336 |
| Contact City,State,Zip: | RIPON, CA 95366 |
| Contact Telephone: | 209-599-8300 |
| Contact Fax: | 209-239-3500 |
| Contact Email: | ATHENA@VINTAGEPOOLSERVICEANDMORE.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | P.O. BOX 336 |
| Mailing City,State,Zip: | RIPON, CA 95366 |
| Owner Name: | BARRY WALKER |
| Owner Type: | Other |
| Operator Name: | BARRY WALKER |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |

**VINTAGE POOL SERVICE AND MORE (Continued)** **1024854110**

| | |
|---|---|
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:07:30.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | BARRY WALKER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | P.O. BOX 336 |

**VINTAGE POOL SERVICE AND MORE (Continued)** **1024854110**

| | |
|---|---|
| Owner/Operator City,State,Zip: | RIPON, CA 95366 |
| Owner/Operator Telephone: | 209-599-8300 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | BARRY WALKER |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | P.O. BOX 336 |
| Owner/Operator City,State,Zip: | RIPON, CA 95366 |
| Owner/Operator Telephone: | 209-599-8300 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

Historic Generators:

| | |
|---|---|
| Receive Date: | 2016-02-25 00:00:00.0 |
| Handler Name: | VINTAGE POOL SERVICE AND MORE |
| Federal Waste Generator Description: | Not a generator, verified |
| State District Owner: | Not reported |
| Large Quantity Handler of Universal Waste: | No |
| Recognized Trader Importer: | No |
| Recognized Trader Exporter: | No |
| Spent Lead Acid Battery Importer: | No |
| Spent Lead Acid Battery Exporter: | No |
| Current Record: | Yes |
| Non Storage Recycler Activity: | Not reported |
| Electronic Manifest Broker: | Not reported |

List of NAICS Codes and Descriptions:

| | |
|---|---|
| NAICS Code: | 811111 |
| NAICS Description: | GENERAL AUTOMOTIVE REPAIR |

Facility Has Received Notices of Violations:

| | |
|---|---|
| Violations: | No Violations Found |

Evaluation Action Summary:

| | |
|---|---|
| Evaluations: | No Evaluations Found |

---

**G23** **STAPLES THE OFFICE SUPERSTORE #1341** **CERS HAZ WASTE** **S121765097**
**NW** **249 COMMERCE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95337**
**0.240 mi.**
**1265 ft.** **Site 1 of 2 in cluster G**

**Relative:** **Lower**

**Actual:** **43 ft.**

CERS HAZ WASTE:

| | |
|---|---|
| Name: | STAPLES THE OFFICE SUPERSTORE #1341 |
| Address: | 249 COMMERCE AVE |
| City,State,Zip: | MANTECA, CA 95337 |
| Site ID: | 354870 |
| CERS ID: | 10636618 |
| CERS Description: | Hazardous Waste Generator |

**STAPLES THE OFFICE SUPERSTORE #1341 (Continued)** **S121765097**

Violations:

| | |
|---|---|
| Site ID: | 354870 |
| Site Name: | Staples the Office Superstore #1341 |
| Violation Date: | 06-03-2020 |
| Citation: | 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c) |
| Violation Description: | Failure to keep records of any test results, waste analyses, or other determinations made in accordance with section 66262.11 for at least three years from the date that the waste was last sent to on-site or off-site treatment, storage, or disposal. |
| Violation Notes: | OBSERVATION: A bagged bottle of spilled black paint, or water-based paint according to Rick Cormier, the store manager, was observed without a product label and was found inside a container labeled as a Hazardous Waste Oxidizer. However, it could not be determined why the paint was determined to be an oxidizer versus another hazardous waste category, such as state regulated/toxic, corrosive base, flammable, etc. Rick reviewed the StrongPak Guide to Potentially Hazardous Materials Management and stated the manager who placed the paint in the oxidizer hazardous waste container must have thought the paint did not belong in any of the other hazardous waste categories. The business operator does not have hazardous waste determination records that support the current handling and disposal of the paint waste. REGULATION GUIDANCE: A business operator shall keep records of any hazardous waste determinations made in accordance with Title 22 California Code of Regulations (CCR) section 6626 |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

| | |
|---|---|
| Site ID: | 354870 |
| Site Name: | Staples the Office Superstore #1341 |
| Violation Date: | 06-03-2020 |
| Citation: | 40 CFR 1 262.34(d)(5)(iii) - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 262.34(d)(5)(iii) |
| Violation Description: | Failure to ensure that all employees are thoroughly familiar with proper waste handling and emergency procedures, relevant to their responsibilities during normal facility operations and emergencies. |
| Violation Notes: | OBSERVATION: At the time of inspection, it could not be demonstrated (not necessarily documented) that employees who handle hazardous waste were properly trained based on the following observations: 1. A bagged bottle of spilled paint was observed in a container labeled as hazardous waste oxidizer and with an accumulation start date of 11/4/2019. The label was missing the physical state and composition (contents). Rick Cormier, the store manager, marked the physical state and contents at the time of inspection. 2. Two bags of alkaline batteries were observed in a container labeled as hazardous waste corrosive base. The label was missing the accumulation start date and the composition (contents). Rick stated that the alkaline batteries were left at the store by a customer around the time Rick came back to work from his leave of absence. Rick removed the batteries from the hazardous waste corrosive container and placed them into a container labeled as universal waste and with th |
| Violation Division: | San Joaquin County Environmental Health |
| Violation Program: | HW |
| Violation Source: | CERS |

**STAPLES THE OFFICE SUPERSTORE #1341 (Continued)** **S121765097**

Evaluation:
- Eval General Type: Compliance Evaluation Inspection
- Eval Date: 06-03-2020
- Violations Found: Yes
- Eval Type: Routine done by local agency
- Eval Notes: Notes: - According to facility manifests observed at the time of inspection, the amount of hazardous waste generated in 2019 was .001 tons. - OBSERVATION: A complete modified contingency plan with an assigned emergency coordinator was not posted at the facility. REGULATION GUIDANCE: The emergency coordinator or his designee must respond to any emergencies that arise. The business operator must post the following information next to telephones or in areas directly involved in the generation and accumulation of hazardous waste: the name and emergency telephone number of the emergency coordinator, the location of fire extinguishers and spill control material, and the telephone number of the fire department unless the facility has a direct alarm. CORRECTIVE ACTION: Rick Cormier, store manager, posted the required information near the customer service area at the time of inspection. Corrected on-site. - OBSERVATION: The following hazardous waste was observed on-site w
- Eval Division: San Joaquin County Environmental Health
- Eval Program: HW
- Eval Source: CERS

Affiliation:
- Affiliation Type Desc: CUPA District
- Entity Name: San Joaquin Cnty Env Health
- Entity Title: Not reported
- Affiliation Address: 1868 East Hazelton Avenue
- Affiliation City: Stockton
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 95205-6232
- Affiliation Phone: (209) 468-3420

- Affiliation Type Desc: Document Preparer
- Entity Name: David Lainez
- Entity Title: Not reported
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

- Affiliation Type Desc: Identification Signer
- Entity Name: David Lainez
- Entity Title: Safety and Compliance Analyst
- Affiliation Address: Not reported
- Affiliation City: Not reported
- Affiliation State: Not reported
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: Not reported

- Affiliation Type Desc: Legal Owner

**STAPLES THE OFFICE SUPERSTORE #1341 (Continued)** **S121765097**

| | |
|---|---|
| Entity Name: | Staples the Office Superstore East Inc |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Staples Drive |
| Affiliation City: | Framingham |
| Affiliation State: | MA |
| Affiliation Country: | United States |
| Affiliation Zip: | 01702 |
| Affiliation Phone: | (508) 253-5000 |
| | |
| Affiliation Type Desc: | Environmental Contact |
| Entity Name: | Keith Barrows |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Staples Drive |
| Affiliation City: | Framingham |
| Affiliation State: | MA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 01702 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Facility Mailing Address |
| Entity Name: | Mailing Address |
| Entity Title: | Not reported |
| Affiliation Address: | 500 Staples Drive |
| Affiliation City: | Framingham |
| Affiliation State: | MA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | 01702 |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Parent Corporation |
| Entity Name: | Staples the Office Superstore East Inc |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |
| | |
| Affiliation Type Desc: | Operator |
| Entity Name: | Staples the Office Superstore East Inc |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | (508) 253-5000 |
| | |
| Affiliation Type Desc: | Property Owner |
| Entity Name: | 249 COMMERCE MANTECA, LLC, C/O AIM PROPERTY MANAGEMENT |
| Entity Title: | Not reported |
| Affiliation Address: | 1212 "K" STREET |
| Affiliation City: | MODESTO |
| Affiliation State: | CA |
| Affiliation Country: | United States |
| Affiliation Zip: | 95354 |

**STAPLES THE OFFICE SUPERSTORE #1341 (Continued)** **S121765097**

Affiliation Phone: (209) 575-5900

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**G24** **STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341** **RCRA NonGen / NLR** **1024841151**
**NW** **249 COMMERCE AVE** **CAL000390733**
**1/8-1/4** **MANTECA, CA 95336**
**0.240 mi.**
**1265 ft.** **Site 2 of 2 in cluster G**

**Relative:**
**Lower**

**Actual:**
**43 ft.**

RCRA NonGen / NLR:

| | |
|---|---|
| Date Form Received by Agency: | 2013-11-04 00:00:00.0 |
| Handler Name: | STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341 |
| Handler Address: | 249 COMMERCE AVE |
| Handler City,State,Zip: | MANTECA, CA 95336-5061 |
| EPA ID: | CAL000390733 |
| Contact Name: | KEITH BARROWS |
| Contact Address: | 500 STAPLES DR |
| Contact City,State,Zip: | FRAMINGHAM, MA 01702 |
| Contact Telephone: | 508-253-1498 |
| Contact Fax: | Not reported |
| Contact Email: | KEITH.BARROWS@STAPLES.COM |
| Contact Title: | Not reported |
| EPA Region: | 09 |
| Land Type: | Not reported |
| Federal Waste Generator Description: | Not a generator, verified |
| Non-Notifier: | Not reported |
| Biennial Report Cycle: | Not reported |
| Accessibility: | Not reported |
| Active Site Indicator: | Handler Activities |
| State District Owner: | Not reported |
| State District: | Not reported |
| Mailing Address: | 500 STAPLES DR |
| Mailing City,State,Zip: | FRAMINGHAM, MA 01702 |
| Owner Name: | STAPLES THE OFFICE SUPERSTORE E INC |
| Owner Type: | Other |
| Operator Name: | KEITH BARROWS |
| Operator Type: | Other |
| Short-Term Generator Activity: | No |
| Importer Activity: | No |
| Mixed Waste Generator: | No |
| Transporter Activity: | No |
| Transfer Facility Activity: | No |
| Recycler Activity with Storage: | No |
| Small Quantity On-Site Burner Exemption: | No |
| Smelting Melting and Refining Furnace Exemption: | No |
| Underground Injection Control: | No |
| Off-Site Waste Receipt: | No |
| Universal Waste Indicator: | Yes |
| Universal Waste Destination Facility: | Yes |
| Federal Universal Waste: | No |
| Active Site Fed-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site Converter Treatment storage and Disposal Facility: | Not reported |
| Active Site State-Reg Treatment Storage and Disposal Facility: | Not reported |
| Active Site State-Reg Handler: | --- |
| Federal Facility Indicator: | Not reported |
| Hazardous Secondary Material Indicator: | N |
| Sub-Part K Indicator: | Not reported |
| Commercial TSD Indicator: | No |

**STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341 (Continued)** **1024841151**

| | |
|---|---|
| Treatment Storage and Disposal Type: | Not reported |
| 2018 GPRA Permit Baseline: | Not on the Baseline |
| 2018 GPRA Renewals Baseline: | Not on the Baseline |
| Permit Renewals Workload Universe: | Not reported |
| Permit Workload Universe: | Not reported |
| Permit Progress Universe: | Not reported |
| Post-Closure Workload Universe: | Not reported |
| Closure Workload Universe: | Not reported |
| 202 GPRA Corrective Action Baseline: | No |
| Corrective Action Workload Universe: | No |
| Subject to Corrective Action Universe: | No |
| Non-TSDFs Where RCRA CA has Been Imposed Universe: | No |
| TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe: | No |
| TSDFs Only Subject to CA under Discretionary Auth Universe: | No |
| Corrective Action Priority Ranking: | No NCAPS ranking |
| Environmental Control Indicator: | No |
| Institutional Control Indicator: | No |
| Human Exposure Controls Indicator: | N/A |
| Groundwater Controls Indicator: | N/A |
| Operating TSDF Universe: | Not reported |
| Full Enforcement Universe: | Not reported |
| Significant Non-Complier Universe: | No |
| Unaddressed Significant Non-Complier Universe: | No |
| Addressed Significant Non-Complier Universe: | No |
| Significant Non-Complier With a Compliance Schedule Universe: | No |
| Financial Assurance Required: | Not reported |
| Handler Date of Last Change: | 2018-09-06 17:03:17.0 |
| Recognized Trader-Importer: | No |
| Recognized Trader-Exporter: | No |
| Importer of Spent Lead Acid Batteries: | No |
| Exporter of Spent Lead Acid Batteries: | No |
| Recycler Activity Without Storage: | No |
| Manifest Broker: | No |
| Sub-Part P Indicator: | No |

Handler - Owner Operator:

| | |
|---|---|
| Owner/Operator Indicator: | Operator |
| Owner/Operator Name: | KEITH BARROWS |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 500 STAPLES DR |
| Owner/Operator City,State,Zip: | FRAMINGHAM, MA 01702 |
| Owner/Operator Telephone: | 508-253-1498 |
| Owner/Operator Telephone Ext: | Not reported |
| Owner/Operator Fax: | Not reported |
| Owner/Operator Email: | Not reported |

| | |
|---|---|
| Owner/Operator Indicator: | Owner |
| Owner/Operator Name: | STAPLES THE OFFICE SUPERSTORE E INC |
| Legal Status: | Other |
| Date Became Current: | Not reported |
| Date Ended Current: | Not reported |
| Owner/Operator Address: | 500 STAPLES DR |
| Owner/Operator City,State,Zip: | FRAMINGHAM, MA 01702 |
| Owner/Operator Telephone: | 508-253-1498 |

**STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341 (Continued)** **1024841151**

Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2013-11-04 00:00:00.0
Handler Name: STAPLES THE OFFICE SUPERSTORE EAST INC STORE 1341
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 45321
NAICS Description: OFFICE SUPPLIES AND STATIONERY STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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**H25** **MANTECA TRAILER** **HIST UST** **U001606253**
**North** **1890 E YOSEMITE AVE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.248 mi.**
**1312 ft.** **Site 1 of 2 in cluster H**

**Relative:** **Lower**

**Actual:** **47 ft.**

HIST UST:
Name: MANTECA TRAILER
Address: 1890 E YOSEMITE AVE
City,State,Zip: MANTECA, CA 95336
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000005737
Facility Type: Other
Other Type: TRAILERS
Contact Name: Not reported
Telephone: 2092391267
Owner Name: MANTECA TRAILER
Owner Address: 1890 E YOSIMITE
Owner City,St,Zip: MANTECA, CA 95336
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1974
Tank Capacity: 00003000

**MANTECA TRAILER (Continued)** **U001606253**

| | |
|---|---|
| Tank Used for: | PRODUCT |
| Type of Fuel: | REGULAR |
| Container Construction Thickness: | 10 |
| Leak Detection: | Stock Inventor |

---

**H26** **MANTECA TRAILER** **HIST UST** **S118412651**
**North** **1890 E YOSIMITE** **N/A**
**1/8-1/4** **MANTECA, CA 95336**
**0.248 mi.**
**1312 ft.** **Site 2 of 2 in cluster H**

**Relative:** **Lower**
**Actual:** **47 ft.**

HIST UST:

| | |
|---|---|
| Name: | MANTECA TRAILER |
| Address: | 1890 E YOSIMITE |
| City,State,Zip: | MANTECA, CA 95336 |
| File Number: | 0002FEE2 |
| URL: | http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002FEE2.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 Thickness: | Not reported |
| Leak Detection: | Not reported |

Click here for Geo Tracker PDF:

---

**E27** **ARCO #6020 CASE #2** **LUST** **S104403464**
**NNW** **1711 YOSEMITE** **Cortese** **N/A**
**1/4-1/2** **MANTECA, CA 95336** **HIST CORTESE**
**0.269 mi.** **CERS**
**1419 ft.** **Site 8 of 9 in cluster E**

**Relative:** **Lower**
**Actual:** **47 ft.**

LUST REG 5:

| | |
|---|---|
| Name: | ARCO #6020 CASE #1 |
| Address: | 1711 YOSEMITE AVE E |
| City: | MANTECA |
| Region: | 5 |
| Status: | Case Closed |
| Case Number: | 390593 |
| Case Type: | Drinking Water Aquifer affected |
| Substance: | GASOLINE |
| Staff Initials: | JLB |
| Lead Agency: | Local |

**ARCO #6020 CASE #2 (Continued)** **S104403464**

Program: LUST
MTBE Code: 6

LUST:
Name: ARCO #6020 CASE #1
Address: 1711 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700467
Global Id: T0607700467
Latitude: 37.79788
Longitude: -121.189483
Status: Completed - Case Closed
Status Date: 11/27/1996
Case Worker: Not reported
RB Case Number: 390593
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1455
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700467
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700467
Action Type: Other
Date: 07/05/1992
Action: Leak Discovery

Global Id: T0607700467
Action Type: Other
Date: 04/12/1991
Action: Leak Reported

LUST:
Global Id: T0607700467
Status: Open - Case Begin Date
Status Date: 04/04/1991

Global Id: T0607700467
Status: Open - Remediation
Status Date: 04/04/1991

Global Id: T0607700467
Status: Open - Site Assessment

**ARCO #6020 CASE #2 (Continued)** **S104403464**

Status Date: 12/29/1992

Global Id: T0607700467
Status: Completed - Case Closed
Status Date: 11/27/1996

Name: ARCO #6020 CASE #2
Address: 1711 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700873
Global Id: T0607700873
Latitude: 37.797742554
Longitude: -121.18990762
Status: Completed - Case Closed
Status Date: 11/28/2006
Case Worker: Not reported
RB Case Number: 391057
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 14551
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700873
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700873
Action Type: ENFORCEMENT
Date: 04/19/1999
Action: Notice of Responsibility

Global Id: T0607700873
Action Type: Other
Date: 04/19/1999
Action: Leak Discovery

Global Id: T0607700873
Action Type: Other
Date: 04/29/1999
Action: Leak Stopped

Global Id: T0607700873
Action Type: Other
Date: 05/05/1999
Action: Leak Reported

**ARCO #6020 CASE #2 (Continued)** **S104403464**

LUST:

| | |
|---|---|
| Global Id: | T0607700873 |
| Status: | Open - Case Begin Date |
| Status Date: | 04/19/1999 |
| Global Id: | T0607700873 |
| Status: | Open - Site Assessment |
| Status Date: | 05/05/1999 |
| Global Id: | T0607700873 |
| Status: | Completed - Case Closed |
| Status Date: | 11/28/2006 |

CORTESE:

| | |
|---|---|
| Name: | ARCO #6020 CASE #2 |
| Address: | 1711 YOSEMITE AVE E |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0607700873 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |
| Name: | ARCO #6020 CASE #1 |
| Address: | 1711 YOSEMITE AVE E |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0607700467 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |

**ARCO #6020 CASE #2 (Continued)** **S104403464**

Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: ARCO #6020 CASE #2
edr_fadd1: 1711 YOSEMITE
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 391057

edr_fname: ARCO #6020 CASE #1
edr_fadd1: 1711 YOSEMITE
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 390593

CERS:
Name: ARCO #6020 CASE #2
Address: 1711 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Site ID: 206668
CERS ID: T0607700873
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Name: ARCO #6020 CASE #1
Address: 1711 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Site ID: 256181
CERS ID: T0607700467
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported

**ARCO #6020 CASE #2 (Continued)** **S104403464**

| | |
|---|---|
| Affiliation Address: | 11020 SUN CENTER DRIVE #200 |
| Affiliation City: | RANCHO CORDOVA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

---

**E28**
**NNW**
**1/4-1/2**
**0.269 mi.**
**1419 ft.**

**ARCO #6020 CASE #2** **LUST** **S104403623**
**1711 YOSEMITE AVE E** **N/A**
**MANTECA, CA 95336**

**Site 9 of 9 in cluster E**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

LUST REG 5:

| | |
|---|---|
| Name: | ARCO #6020 CASE #2 |
| Address: | 1711 YOSEMITE AVE E |
| City: | MANTECA |
| Region: | 5 |
| Status: | Case Closed |
| Case Number: | 391057 |
| Case Type: | Drinking Water Aquifer affected |
| Substance: | GASOLINE |
| Staff Initials: | JLB |
| Lead Agency: | Local |
| Program: | LUST |
| MTBE Code: | 6 |

---

**29**
**North**
**1/4-1/2**
**0.313 mi.**
**1653 ft.**

**ABF FREIGHT** **LUST** **S104403600**
**2427 YOSEMITE AVE** **Cortese** **N/A**
**MANTECA, CA 95337** **HAZNET**
**HIST CORTESE**
**CERS**
**HWTS**

**Relative:**
**Higher**

**Actual:**
**51 ft.**

LUST REG 5:

| | |
|---|---|
| Name: | ABF FREIGHT |
| Address: | 2427 YOSEMITE AVE W |
| City: | MANTECA |
| Region: | 5 |
| Status: | Case Closed |
| Case Number: | 391006 |
| Case Type: | Soil only |
| Substance: | DIESEL |
| Staff Initials: | JLB |
| Lead Agency: | Local |
| Program: | LUST |
| MTBE Code: | N/A |

LUST:

| | |
|---|---|
| Name: | ABF FREIGHT |
| Address: | 2427 YOSEMITE AVE W |
| City,State,Zip: | MANTECA, CA 95336 |
| Lead Agency: | SAN JOAQUIN COUNTY |
| Case Type: | LUST Cleanup Site |
| Geo Track: | http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700826 |

**ABF FREIGHT (Continued)** **S104403600**

Global Id: T0607700826
Latitude: 37.798301
Longitude: -121.259781
Status: Completed - Case Closed
Status Date: 05/20/1999
Case Worker: Not reported
RB Case Number: 391006
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 1501
Potential Media Affect: Soil
Potential Contaminants of Concern: Diesel
Site History: Not reported

LUST:
Global Id: T0607700826
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700826
Action Type: ENFORCEMENT
Date: 04/09/1998
Action: Notice of Responsibility

Global Id: T0607700826
Action Type: Other
Date: 03/18/1998
Action: Leak Discovery

Global Id: T0607700826
Action Type: Other
Date: 04/09/1998
Action: Leak Reported

LUST:
Global Id: T0607700826
Status: Open - Case Begin Date
Status Date: 01/01/1996

Global Id: T0607700826
Status: Open - Site Assessment
Status Date: 03/18/1998

Global Id: T0607700826
Status: Open - Site Assessment
Status Date: 11/11/1998

Global Id: T0607700826
Status: Completed - Case Closed
Status Date: 05/20/1999

**ABF FREIGHT (Continued)** **S104403600**

CORTESE:

| | |
|---|---|
| Name: | ABF FREIGHT |
| Address: | 2427 YOSEMITE AVE W |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Envirostor Id: | Not reported |
| Global ID: | T0607700826 |
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

HAZNET:

| | |
|---|---|
| Name: | ABF FREIGHT |
| Address: | 2427 YOSEMITE AVE |
| Address 2: | Not reported |
| City,State,Zip: | MANTECA, CA 95337 |
| Contact: | DANIEL MOHR |
| Telephone: | 2098234861 |
| Mailing Name: | Not reported |
| Mailing Address: | 3801 OLD GREENWOOD RD |
| | |
| Year: | 2017 |
| Gepaid: | CAC002900146 |
| TSD EPA ID: | CAD028409019 |
| CA Waste Code: | 141 - Off-specification, aged or surplus inorganics |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.075 |
| | |
| Year: | 2017 |
| Gepaid: | CAC002900146 |
| TSD EPA ID: | CAD028409019 |
| CA Waste Code: | 181 - Other inorganic solid waste |
| Disposal Method: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Tons: | 0.05 |

Additional Info:

| | |
|---|---|
| Year: | 2017 |
| Gen EPA ID: | CAC002900146 |

**ABF FREIGHT (Continued)** **S104403600**

| | |
|---|---|
| Shipment Date: | 20170308 |
| Creation Date: | 5/25/2017 18:31:01 |
| Receipt Date: | 20170320 |
| Manifest ID: | 015279866JJK |
| Trans EPA ID: | CAR000030114 |
| Trans Name: | NRC ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 181 - Other inorganic solid waste Organics |
| RCRA Code: | Not reported |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.05 |
| Waste Quantity: | 100 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

| | |
|---|---|
| Shipment Date: | 20170308 |
| Creation Date: | 5/25/2017 18:31:01 |
| Receipt Date: | 20170320 |
| Manifest ID: | 015279866JJK |
| Trans EPA ID: | CAR000030114 |
| Trans Name: | NRC ENVIRONMENTAL SERVICES INC |
| Trans 2 EPA ID: | Not reported |
| Trans 2 Name: | Not reported |
| TSDF EPA ID: | CAD028409019 |
| Trans Name: | CROSBY & OVERTON INC |
| TSDF Alt EPA ID: | Not reported |
| TSDF Alt Name: | Not reported |
| Waste Code Description: | 141 - Off-specification, aged, or surplus inorganics |
| RCRA Code: | D002 |
| Meth Code: | H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135) |
| Quantity Tons: | 0.075 |
| Waste Quantity: | 150 |
| Quantity Unit: | P |
| Additional Code 1: | Not reported |
| Additional Code 2: | Not reported |
| Additional Code 3: | Not reported |
| Additional Code 4: | Not reported |
| Additional Code 5: | Not reported |

HIST CORTESE:

| | |
|---|---|
| edr_fname: | ABF FREIGHT |
| edr_fadd1: | 2427 YOSEMITE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Facility County Code: | 39 |
| Reg By: | LTNKA |

**ABF FREIGHT (Continued)** **S104403600**

Reg Id: 391006

CERS:
Name: ABF FREIGHT
Address: 2427 YOSEMITE AVE W
City,State,Zip: MANTECA, CA 95336
Site ID: 224762
CERS ID: T0607700826
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: Alan Buehler - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 SUN CENTER DRIVE #200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

HWTS:
Name: ABF FREIGHT
Address: 2427 YOSEMITE AVE
Address 2: Not reported
City,State,Zip: MANTECA, CA 95337
EPA ID: CAC002900146
Inactive Date: 08/04/2017
Create Date: 03/06/2017
Last Act Date: 08/04/2017
Mailing Name: Not reported
Mailing Address: 3801 OLD GREENWOOD RD
Mailing Address 2: Not reported
Mailing City,State,Zip: FORTH SMITH, AR 72903
Owner Name: ABF FREIGHT
Owner Address: 3801 OLD GREENWOOD RD
Owner Address 2: Not reported
Owner City,State,Zip: FORTH SMITH, AR 72903
Contact Name: DANIEL MOHR
Contact Address: 2427 YOSEMITE AVE
Contact Address 2: Not reported
City,State,Zip: MANTECA, CA 95337

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**30**
**NW**
**1/4-1/2**
**0.343 mi.**
**1811 ft.**

**FRANK'S EXXON #2** **LUST** **S101592677**
**1399 E YOSEMITE** **SWEEPS UST** **N/A**
**MANTECA, CA 95336** **CA FID UST**
**Cortese**
**HIST CORTESE**

**Relative:**
**Lower**

**Actual:**
**45 ft.**

LUST REG 5:
Name: FRANK'S EXXON #2
Address: 1399 YOSEMITE AVE E
City: MANTECA
Region: 5
Status: Case Closed
Case Number: 390277

**FRANK'S EXXON #2 (Continued)** **S101592677**

Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 0

LUST:
Name: FRANK'S EXXON #2
Address: 1399 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700202
Global Id: T0607700202
Latitude: 37.797829
Longitude: -121.194076
Status: Completed - Case Closed
Status Date: 11/27/1996
Case Worker: Not reported
RB Case Number: 390277
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1464
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607700202
Contact Type: Regional Board Caseworker
Contact Name: Alan Buehler
Organization Name: CENTRAL VALLEY RWQCB (REGION 5S)
Address: 11020 SUN CENTER DRIVE #200
City: RANCHO CORDOVA
Email: alan.buehler@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607700202
Action Type: Other
Date: 08/16/1988
Action: Leak Discovery

Global Id: T0607700202
Action Type: Other
Date: 08/23/1988
Action: Leak Reported

LUST:
Global Id: T0607700202
Status: Open - Case Begin Date
Status Date: 08/16/1988

Global Id: T0607700202
Status: Completed - Case Closed

**FRANK'S EXXON #2 (Continued)** **S101592677**

Status Date: 11/27/1996

SWEEPS UST:

| | |
|---|---|
| Name: | FRANK'S EXXON #2 |
| Address: | 1399 E YOSEMITE |
| City: | MANTECA |
| Status: | Not reported |
| Comp Number: | 1464 |
| Number: | Not reported |
| Board Of Equalization: | 44-024704 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 39-000-001464-000001 |
| Tank Status: | Not reported |
| Capacity: | 8000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | REG UNLEADED |
| Number Of Tanks: | 4 |

| | |
|---|---|
| Name: | FRANK'S EXXON #2 |
| Address: | 1399 E YOSEMITE |
| City: | MANTECA |
| Status: | Not reported |
| Comp Number: | 1464 |
| Number: | Not reported |
| Board Of Equalization: | 44-024704 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 39-000-001464-000002 |
| Tank Status: | Not reported |
| Capacity: | 10000 |
| Active Date: | Not reported |
| Tank Use: | M.V. FUEL |
| STG: | PRODUCT |
| Content: | LEADED |
| Number Of Tanks: | Not reported |

| | |
|---|---|
| Name: | FRANK'S EXXON #2 |
| Address: | 1399 E YOSEMITE |
| City: | MANTECA |
| Status: | Not reported |
| Comp Number: | 1464 |
| Number: | Not reported |
| Board Of Equalization: | 44-024704 |
| Referral Date: | Not reported |
| Action Date: | Not reported |
| Created Date: | Not reported |
| Owner Tank Id: | Not reported |
| SWRCB Tank Id: | 39-000-001464-000003 |
| Tank Status: | Not reported |

**FRANK'S EXXON #2 (Continued)** **S101592677**

Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: FRANK'S EXXON #2
Address: 1399 E YOSEMITE
City: MANTECA
Status: Not reported
Comp Number: 1464
Number: Not reported
Board Of Equalization: 44-024704
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001464-000004
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Name: FRANK'S EXXON #2
Address: 1399 E YOSEMITE
City: MANTECA
Status: Active
Comp Number: 1464
Number: 1
Board Of Equalization: 44-024704
Referral Date: 02-24-92
Action Date: 02-24-92
Created Date: 07-12-88
Owner Tank Id: 005
SWRCB Tank Id: 39-000-001464-000005
Tank Status: A
Capacity: 10000
Active Date: 02-24-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: FRANK'S EXXON #2
Address: 1399 E YOSEMITE
City: MANTECA
Status: Active
Comp Number: 1464
Number: 1
Board Of Equalization: 44-024704
Referral Date: 02-24-92
Action Date: 02-24-92
Created Date: 07-12-88

**FRANK'S EXXON #2 (Continued)** **S101592677**

Owner Tank Id: 006
SWRCB Tank Id: 39-000-001464-000006
Tank Status: A
Capacity: 8000
Active Date: 02-24-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: FRANK'S EXXON #2
Address: 1399 E YOSEMITE
City: MANTECA
Status: Active
Comp Number: 1464
Number: 1
Board Of Equalization: 44-024704
Referral Date: 02-24-92
Action Date: 02-24-92
Created Date: 07-12-88
Owner Tank Id: 007
SWRCB Tank Id: 39-000-001464-000007
Tank Status: A
Capacity: 8000
Active Date: 02-24-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39000152
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2098233313
Mail To: Not reported
Mailing Address: P O BOX 67
Mailing Address 2: Not reported
Mailing City,St,Zip: MANTECA 95336
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CORTESE:
Name: FRANK'S EXXON #2
Address: 1399 YOSEMITE AVE E
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700202

**FRANK'S EXXON #2 (Continued)** **S101592677**

| | |
|---|---|
| Site/Facility Type: | LUST CLEANUP SITE |
| Cleanup Status: | COMPLETED - CASE CLOSED |
| Status Date: | Not reported |
| Site Code: | Not reported |
| Latitude: | Not reported |
| Longitude: | Not reported |
| Owner: | Not reported |
| Enf Type: | Not reported |
| Swat R: | Not reported |
| Flag: | active |
| Order No: | Not reported |
| Waste Discharge System No: | Not reported |
| Effective Date: | Not reported |
| Region 2: | Not reported |
| WID Id: | Not reported |
| Solid Waste Id No: | Not reported |
| Waste Management Uit Name: | Not reported |
| File Name: | Active Open |

HIST CORTESE:

| | |
|---|---|
| edr_fname: | FRANK'S EXXON #2 |
| edr_fadd1: | 1399 YOSEMITE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | CORTESE |
| Facility County Code: | 39 |
| Reg By: | LTNKA |
| Reg Id: | 390277 |

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**31**
**NW**
**1/4-1/2**
**0.400 mi.**
**2113 ft.**

**GRANDA'S RECYCLING** **SWRCY** **S107616255**
**1393 E YOSEMITE AVE** **N/A**
**MANTECA, CA 95336**

**Relative:**
**Lower**

**Actual:**
**46 ft.**

SWRCY:

| | |
|---|---|
| Name: | GRANDA'S RECYCLING |
| Address: | 1393 E YOSEMITE AVE |
| City,State,Zip: | MANTECA, CA 95336 |
| Reg Id: | Not reported |
| Cert Id: | RC270697.001 |
| Mailing Address: | 1917 S Olive Ave |
| Mailing City: | Stockton |
| Mailing State: | CA |
| Mailing Zip Code: | 95215 |
| Website: | Not reported |
| Email: | grandasrecycling@yahoo.com |
| Phone Number: | (312) 388-0892 |
| Rural: | N |
| Operation Begin Date: | 05/01/2018 |
| Aluminium: | Not reported |
| Glass: | Not reported |
| Plastic: | Not reported |
| Bimetal: | Not reported |
| Hours of Operation: | Mon - Sat 9:00 am - 5:00 pm, Closed 12:00-12:30 pm; Sun Closed |
| Organization ID: | Not reported |
| Organization Name: | Granda's Recycling |

**32**
**West**
**1/4-1/2**
**0.409 mi.**
**2159 ft.**

**LINEAGE LOGISTICS**
**730 SPRECKELS AVENUE**
**MANTECA, CA 95336**

**CPS-SLIC**
**CERS**

**S124442993**
**N/A**

**Relative:**
**Lower**

**Actual:**
**42 ft.**

CPS-SLIC:

| | |
|---|---|
| Name: | LINEAGE LOGISTICS |
| Address: | 730 SPRECKELS AVENUE |
| City,State,Zip: | MANTECA, CA 95336 |
| Region: | STATE |
| **Facility Status:** | **Completed - Case Closed** |
| Status Date: | 09/25/2019 |
| Global Id: | T10000013207 |
| Lead Agency: | CENTRAL VALLEY RWQCB (REGION 5S) |
| Lead Agency Case Number: | Not reported |
| Latitude: | 37.78923 |
| Longitude: | -121.19429 |
| Case Type: | Cleanup Program Site |
| Case Worker: | WLB |
| Local Agency: | Not reported |
| RB Case Number: | T10000013207 |
| File Location: | Regional Board |
| Potential Media Affected: | Soil |
| Potential Contaminants of Concern: | Not reported |
| Site History: | Cleanup of hydraulic oil from spill (forklift). Soil was excavated and taken offsite for landfill disposal. |

Click here to access the California GeoTracker records for this facility:

CERS:

| | |
|---|---|
| Name: | LINEAGE LOGISTICS |
| Address: | 730 SPRECKELS AVENUE |
| City,State,Zip: | MANTECA, CA 95336 |
| Site ID: | 551271 |
| CERS ID: | T10000013207 |
| CERS Description: | Cleanup Program Site |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Regional Board Caseworker |
| Entity Name: | BILL BRATTAIN - CENTRAL VALLEY RWQCB (REGION 5S) |
| Entity Title: | Not reported |
| Affiliation Address: | 11020 SUN CENTER DRIVE #200 |
| Affiliation City: | RANCHO CORDOVA |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

**33**
**SSE**
**1/4-1/2**
**0.422 mi.**
**2227 ft.**

**FORWARD DISPOSAL**
**19999 S. AUSTIN RD**
**MANTECA, CA 95336**

**DEED** **S106544845**
**N/A**

**Relative:**
**Lower**

**Actual:**
**47 ft.**

DEED:
Name: FORWARD DISPOSAL
Address: 19999 S. AUSTIN RD
City,State,Zip: MANTECA, CA 95336
Envirostor ID: Not reported
Area: Not reported
Sub Area: Not reported
Site Type: HWMP Land Use Restrictions by Facility Name
Status: Not reported
Agency: Not reported
Covenant Uploaded: Not reported
Deed Date(s): Not reported
File Name: HWMP Restrictions

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**34**
**SW**
**1/2-1**
**0.965 mi.**
**5097 ft.**

**WOODWARD ANNEX SITE**
**WOODWARD AVENUE/SPRECKELS ROAD**
**MANTECA, CA 95337**

**ENVIROSTOR** **S107737646**
**SCH** **N/A**
**CERS**

**Relative:**
**Lower**

**Actual:**
**44 ft.**

ENVIROSTOR:
Name: WOODWARD ANNEX SITE
Address: WOODWARD AVENUE/SPRECKELS ROAD
City,State,Zip: MANTECA, CA 95337
Facility ID: 39010046
Status: No Further Action
Status Date: 10/15/2004
Site Code: 104440
Site Type: School Investigation
Site Type Detailed: School
Acres: 8
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Kamili Siglowide
Supervisor: Mark Malinowski
Division Branch: Northern California Schools & Santa Susana
Assembly: 12
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 37.78410
Longitude: -121.2
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: SOIL
Alias Name: MANTECA USD-PROPOSED WOODWARD ANNEX
Alias Type: Alternate Name
Alias Name: 104440
Alias Type: Project Code (Site Code)

**WOODWARD ANNEX SITE (Continued)** **S107737646**

Alias Name: 39010046
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/14/2005
Comments: DTSC approved the PEA report with a no further action required determination.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Workplan
Completed Date: 02/18/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 07/06/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 03/07/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 10/15/2004
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: WOODWARD ANNEX SITE
Address: WOODWARD AVENUE/SPRECKELS ROAD
City,State,Zip: MANTECA, CA 95337
Facility ID: 39010046
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 8
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP

**WOODWARD ANNEX SITE (Continued)** **S107737646**

| | |
|---|---|
| Lead Agency: | SMBRP |
| Lead Agency Description: | DTSC - Site Cleanup Program |
| Project Manager: | Kamili Siglowide |
| Supervisor: | Mark Malinowski |
| Division Branch: | Northern California Schools & Santa Susana |
| Site Code: | 104440 |
| Assembly: | 12 |
| Senate: | 05 |
| Special Program Status: | Not reported |
| Status: | No Further Action |
| Status Date: | 10/15/2004 |
| Restricted Use: | NO |
| Funding: | School District |
| Latitude: | 37.78410 |
| Longitude: | -121.2 |
| APN: | NONE SPECIFIED |
| Past Use: | AGRICULTURAL - ROW CROPS |
| Potential COC: | NONE SPECIFIED, No Contaminants found |
| Confirmed COC: | No Contaminants found |
| Potential Description: | SOIL |
| Alias Name: | MANTECA USD-PROPOSED WOODWARD ANNEX |
| Alias Type: | Alternate Name |
| Alias Name: | 104440 |
| Alias Type: | Project Code (Site Code) |
| Alias Name: | 39010046 |
| Alias Type: | Envirostor ID Number |

Completed Info:

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Report |
| Completed Date: | 06/14/2005 |
| Comments: | DTSC approved the PEA report with a no further action required determination. |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Preliminary Endangerment Assessment Workplan |
| Completed Date: | 02/18/2005 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Cost Recovery Closeout Memo |
| Completed Date: | 07/06/2005 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Site Inspections/Visit (Non LUR) |
| Completed Date: | 03/07/2005 |
| Comments: | Not reported |

| | |
|---|---|
| Completed Area Name: | PROJECT WIDE |
| Completed Sub Area Name: | Not reported |
| Completed Document Type: | Environmental Oversight Agreement |
| Completed Date: | 10/15/2004 |
| Comments: | Not reported |

**WOODWARD ANNEX SITE (Continued)** **S107737646**

| | |
|---|---|
| Future Area Name: | Not reported |
| Future Sub Area Name: | Not reported |
| Future Document Type: | Not reported |
| Future Due Date: | Not reported |
| Schedule Area Name: | Not reported |
| Schedule Sub Area Name: | Not reported |
| Schedule Document Type: | Not reported |
| Schedule Due Date: | Not reported |
| Schedule Revised Date: | Not reported |

CERS:

| | |
|---|---|
| Name: | WOODWARD ANNEX SITE |
| Address: | WOODWARD AVENUE/SPRECKELS ROAD |
| City,State,Zip: | MANTECA, CA 95337 |
| Site ID: | 344968 |
| CERS ID: | 39010046 |
| CERS Description: | School Investigation |

Affiliation:

| | |
|---|---|
| Affiliation Type Desc: | Supervisor |
| Entity Name: | MARK MALINOWSKI |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | Not reported |
| Affiliation State: | Not reported |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

| | |
|---|---|
| Affiliation Type Desc: | Lead Project Manager |
| Entity Name: | KAMILI SIGLOWIDE |
| Entity Title: | Not reported |
| Affiliation Address: | Not reported |
| Affiliation City: | SACRAMENTO |
| Affiliation State: | CA |
| Affiliation Country: | Not reported |
| Affiliation Zip: | Not reported |
| Affiliation Phone: | Not reported |

Count: 3 records. ORPHAN SUMMARY

| City | EDR ID | Site Name | Site Address | Zip | Database(s) |
|---|---|---|---|---|---|
| MANTECA | S107537650 | | AUSTIN RD, AT HIGHWAY 99 | | CDL |
| MANTECA | S100186163 | SPRECKELS SUGAR COMPANY, INC. | YOSEMITE AVE | 95336 | ENVIROSTOR |
| RIPON | S107532227 | | 2800 S AUSTIN RD | 95366 | CDL |

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

**STANDARD ENVIRONMENTAL RECORDS**

***Federal NPL site list***

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
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 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
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: 04/03/2019
Date Data Arrived at EDR: 04/05/2019
Date Made Active in Reports: 05/14/2019
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 12/23/2020
Next Scheduled EDR Contact: 04/12/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/26/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/26/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 04/05/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***Federal institutional controls / engineering controls registries***

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 10/28/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 11/18/2020
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 06/06/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/15/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 7

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

***State- and tribal - equivalent NPL***

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
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: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

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

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/14/2021
Number of Days to Update: 65

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Quarterly

***State and tribal leaking storage tank lists***

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: 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 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST 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 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation
Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

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: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

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: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

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: No Update Planned

***State and tribal registered storage tank lists***

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 12/02/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/23/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 12/15/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
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: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 12/16/2020
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

***State and tribal voluntary cleanup sites***

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/22/2021
Next Scheduled EDR Contact: 07/05/2021
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

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: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

***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: 12/17/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

**ADDITIONAL ENVIRONMENTAL RECORDS**

***Local Brownfield lists***

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/16/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

***Local Lists of Landfill / Solid Waste Disposal Sites***

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

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: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

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

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
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: 10/26/2020
Date Data Arrived at EDR: 10/26/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/26/2021
Next Scheduled EDR Contact: 05/10/2021
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: 06/30/2019
Date Data Arrived at EDR: 05/28/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
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
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

***Local Lists of Registered Storage Tanks***

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Local Land Records***

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
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: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
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: 12/16/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/24/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

***Other Ascertainable Records***

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 5

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 09/29/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 69

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
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: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
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: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 01/07/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
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: 12/14/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
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: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/31/2021
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: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/21/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 35

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 06/14/2021
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: 11/02/2020
Date Data Arrived at EDR: 11/12/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 74

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 03/11/2021
Next Scheduled EDR Contact: 05/17/2021
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: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/05/2020
Date Data Arrived at EDR: 08/10/2020
Date Made Active in Reports: 10/08/2020
Number of Days to Update: 59

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
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: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 03/05/2021
Next Scheduled EDR Contact: 06/14/2021
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: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 03/02/2021
Next Scheduled EDR Contact: 06/14/2021
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: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
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: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/27/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/18/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 26

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 03/04/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 63

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/24/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/30/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 56

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/01/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
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: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 12/11/2020
Date Data Arrived at EDR: 12/11/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 81

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/10/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 11/04/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 01/25/2021
Number of Days to Update: 55

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/02/2021
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 12/17/2020
Date Made Active in Reports: 03/09/2021
Number of Days to Update: 82

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/23/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/25/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Annually

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 11/17/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 06/28/2021
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: 10/16/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 01/22/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 01/29/2021
Number of Days to Update: 77

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
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: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/13/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 02/17/2021
Next Scheduled EDR Contact: 05/31/2021
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: 01/05/2021
Date Data Arrived at EDR: 01/05/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 72

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 01/05/2021
Next Scheduled EDR Contact: 04/19/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/09/2020
Date Data Arrived at EDR: 11/10/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 78

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/24/2021
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: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
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: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 12/10/2020
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
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: 02/01/2021
Date Data Arrived at EDR: 02/19/2021
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 3

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/19/2020
Date Made Active in Reports: 01/07/2021
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 12/04/2020
Date Data Arrived at EDR: 12/04/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 76
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 10/13/2020
Date Data Arrived at EDR: 10/14/2020
Date Made Active in Reports: 11/03/2020
Number of Days to Update: 20
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## EDR HIGH RISK HISTORICAL RECORDS

### *EDR Exclusive Records*

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

## EDR RECOVERED GOVERNMENT ARCHIVES

### *Exclusive Recovered Govt. Archives*

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

**COUNTY RECORDS**

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/17/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/13/2021
Number of Days to Update: 83

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 06/08/2020
Date Data Arrived at EDR: 08/13/2020
Date Made Active in Reports: 10/22/2020
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/22/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/18/2020
Date Data Arrived at EDR: 11/19/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 77

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 05/11/2020
Date Data Arrived at EDR: 05/12/2020
Date Made Active in Reports: 07/27/2020
Number of Days to Update: 76

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 84

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 01/04/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 08/17/2020
Date Made Active in Reports: 11/05/2020
Number of Days to Update: 80

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/30/2012
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 42

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 01/15/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 12/18/2020
Next Scheduled EDR Contact: 04/05/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/20/2020
Date Data Arrived at EDR: 10/09/2020
Date Made Active in Reports: 12/29/2020
Number of Days to Update: 81

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 01/12/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/07/2020
Next Scheduled EDR Contact: 01/25/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/21/2020
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 07/13/2020
Date Data Arrived at EDR: 07/15/2020
Date Made Active in Reports: 07/31/2020
Number of Days to Update: 16

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 10/26/2020
Date Data Arrived at EDR: 10/28/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 79

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 01/25/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/05/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/21/2021
Number of Days to Update: 79

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 02/02/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 11/24/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 11/25/2020
Number of Days to Update: 1

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/15/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 02/18/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/15/2020
Number of Days to Update: 76
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 12/30/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 10/28/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77
Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 11/16/2020
Date Data Arrived at EDR: 11/18/2020
Date Made Active in Reports: 02/04/2021
Number of Days to Update: 78
Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/16/2021
Number of Days to Update: 77

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 03/03/2021
Next Scheduled EDR Contact: 03/15/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/27/2021
Number of Days to Update: 82

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 11/05/2020
Date Data Arrived at EDR: 11/06/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 81

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/28/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 11/13/2020
Date Made Active in Reports: 02/01/2021
Number of Days to Update: 80

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 11/20/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/05/2021
Number of Days to Update: 74

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 02/22/2021
Next Scheduled EDR Contact: 06/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 05/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 02/16/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 12/03/2020
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 03/12/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/05/2021
Date Data Arrived at EDR: 01/06/2021
Date Made Active in Reports: 03/18/2021
Number of Days to Update: 71

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/19/2021
Next Scheduled EDR Contact: 07/05/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 10/06/2020
Date Made Active in Reports: 12/22/2020
Number of Days to Update: 77

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/24/2020
Date Made Active in Reports: 02/10/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 02/26/2021
Next Scheduled EDR Contact: 06/14/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/11/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/26/2020
Number of Days to Update: 75

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 10/14/2020
Date Data Arrived at EDR: 10/15/2020
Date Made Active in Reports: 01/05/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/30/2020
Date Data Arrived at EDR: 11/03/2020
Date Made Active in Reports: 01/20/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 02/01/2021
Next Scheduled EDR Contact: 05/17/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 09/28/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 01/19/2021
Next Scheduled EDR Contact: 05/02/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 12/21/2020
Next Scheduled EDR Contact: 04/12/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 02/08/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/28/2020
Date Data Arrived at EDR: 10/22/2020
Date Made Active in Reports: 01/12/2021
Number of Days to Update: 82
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 01/20/2021
Next Scheduled EDR Contact: 05/03/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 12/01/2020
Date Data Arrived at EDR: 12/08/2020
Date Made Active in Reports: 02/22/2021
Number of Days to Update: 76
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/09/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 01/04/2021
Number of Days to Update: 12
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 12/20/2020
Next Scheduled EDR Contact: 04/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/26/2021
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 02/03/2021
Number of Days to Update: 6

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 02/23/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Varies

**OTHER DATABASE(S)**

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 10/20/2020
Date Made Active in Reports: 11/02/2020
Number of Days to Update: 13

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/12/2021
Next Scheduled EDR Contact: 05/24/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 01/08/2021
Next Scheduled EDR Contact: 04/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/29/2021
Next Scheduled EDR Contact: 05/10/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 01/11/2021
Next Scheduled EDR Contact: 04/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 02/09/2021
Next Scheduled EDR Contact: 05/31/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 03/08/2021
Next Scheduled EDR Contact: 06/21/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

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**

YOSEMITE SQUARE
AUSTIN ROAD
MANTECA, CA 95336

**TARGET PROPERTY COORDINATES**

| | |
|---|---|
| Latitude (North): | 37.7886 - 37° 47' 18.96'' |
| Longitude (West): | 121.184929 - 121° 11' 5.74'' |
| Universal Tranverse Mercator: | Zone 10 |
| UTM X (Meters): | 659825.4 |
| UTM Y (Meters): | 4183706.5 |
| Elevation: | 49 ft. above sea level |

**USGS TOPOGRAPHIC MAP**

| | |
|---|---|
| Target Property Map: | 5640398 MANTECA, CA |
| Version Date: | 2012 |

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

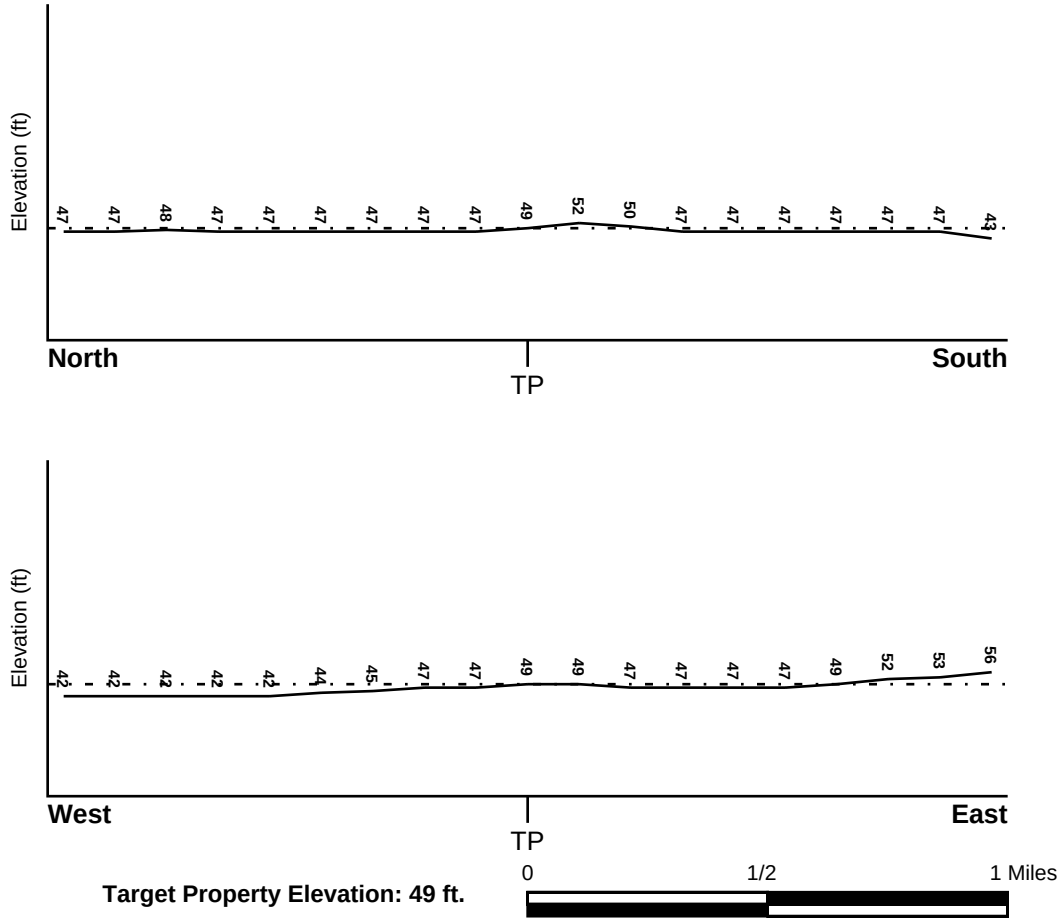
**TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

**TARGET PROPERTY TOPOGRAPHY**

General Topographic Gradient: General North

**SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**




Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**HYDROLOGIC INFORMATION**

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

**FEMA FLOOD ZONE**

| Flood Plain Panel at Target Property | FEMA Source Type |
|---|---|
| 0602990620A | FEMA Q3 Flood data |

| Additional Panels in search area: | FEMA Source Type |
|---|---|
| 06077C0640F | FEMA FIRM Flood data |

**NATIONAL WETLAND INVENTORY**

| NWI Quad at Target Property | NWI Electronic Data Coverage |
|---|---|
| MANTECA | YES - refer to the Overview Map and Detail Map |

**HYDROGEOLOGIC INFORMATION**

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

***Site-Specific Hydrogeological Data*:***

| | |
|---|---|
| Search Radius: | 1.25 miles |
| Status: | Not found |

**AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

| MAP ID | LOCATION FROM TP | GENERAL DIRECTION GROUNDWATER FLOW |
|---|---|---|
| Not Reported | | |

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

**GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

**ROCK STRATIGRAPHIC UNIT**

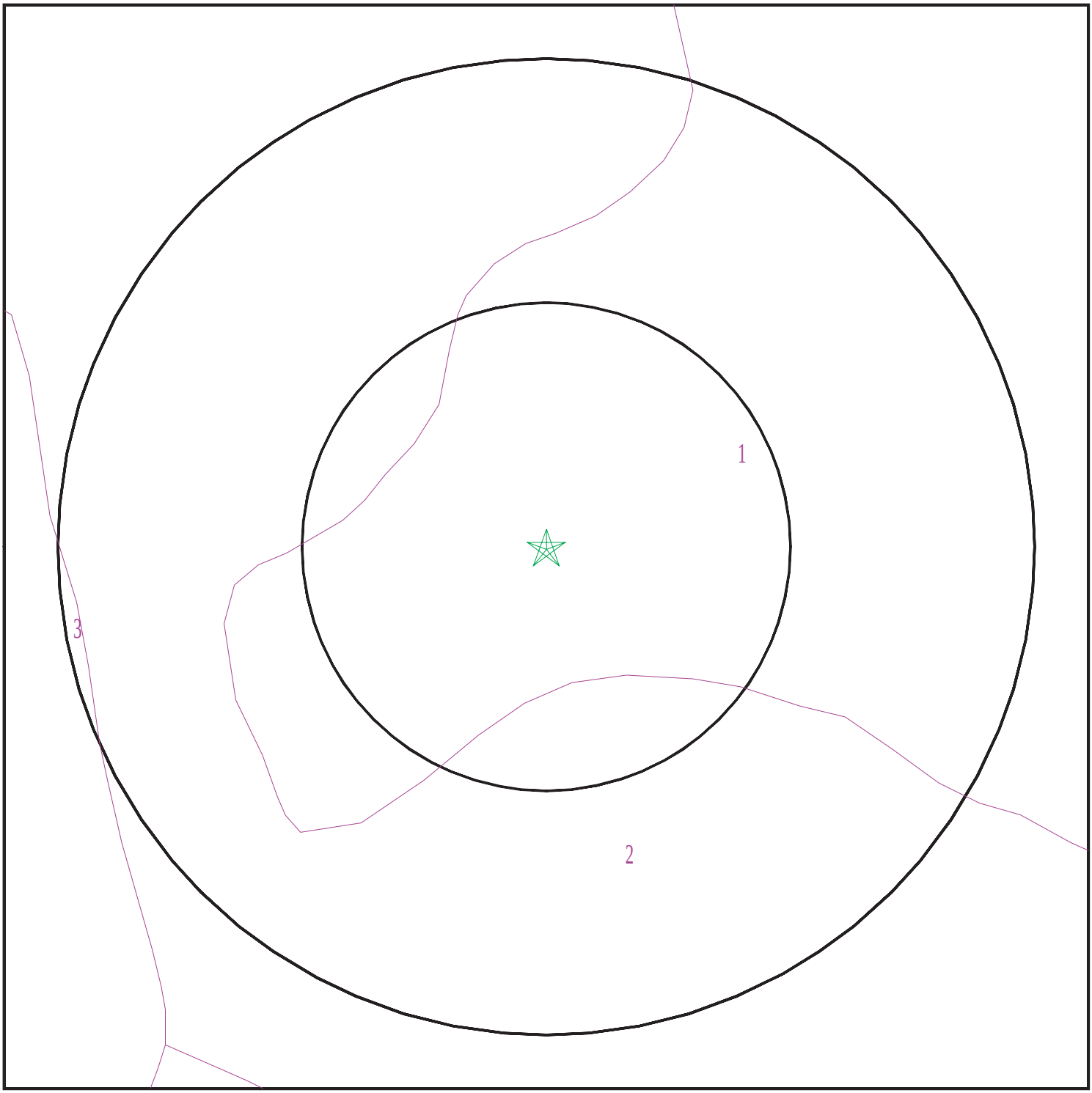
| | |
|---|---|
| Era: | Cenozoic |
| System: | Quaternary |
| Series: | Quaternary |
| Code: | Q *(decoded above as Era, System & Series)* |

**GEOLOGIC AGE IDENTIFICATION**

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

# SSURGO SOIL MAP - 06422879.2r




Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

| | | | |
|---|---|---|---|
| SITE NAME: | Yosemite Square | CLIENT: | Engeo Inc. |
| ADDRESS: | Austin Road<br>Manteca CA 95336 | CONTACT: | Jason Sedore |
| LAT/LONG: | 37.7886 / 121.184929 | INQUIRY #: | 06422879.2r |
| | | DATE: | March 25, 2021 7:02 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY**

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

---

**Soil Map ID: 1**

Soil Component Name: TINNIN

Soil Surface Texture: loamy coarse sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

| Soil Layer Information | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Boundary | | | Classification | | Saturated hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 27 inches | loamy coarse 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<br>Min: 42 | Max: 8.4<br>Min: 6.6 |
| 2 | 27 inches | 53 inches | loamy coarse 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<br>Min: 42 | Max: 8.4<br>Min: 6.6 |
| 3 | 53 inches | 74 inches | loamy coarse 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<br>Min: 42 | Max: 8.4<br>Min: 6.6 |

**Soil Map ID: 2**

Soil Component Name: DELHI

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 hydraulic conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 16 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.8<br>Min: 6.1 |
| 2 | 16 inches | 25 inches | loamy sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.8<br>Min: 6.1 |
| 3 | 25 inches | 59 inches | sand | Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand. | COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand. | Max: 141<br>Min: 42 | Max: 7.8<br>Min: 6.1 |

**Soil Map ID: 3**

Soil Component Name: VERITAS

Soil Surface Texture: fine 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: Moderately well drained

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially 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 conductivity micro m/sec | Soil Reaction (pH) |
| Layer | Upper | Lower | Soil Texture Class | AASHTO Group | Unified Soil | | |
| 1 | 0 inches | 14 inches | fine sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.01<br>Min: 0 | Max: Min: |
| 2 | 14 inches | 53 inches | fine sandy loam | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.01<br>Min: 0 | Max: Min: |
| 3 | 53 inches | 70 inches | cemented | Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils. | Not reported | Max: 0.01<br>Min: 0 | Max: Min: |

**LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

**WELL SEARCH DISTANCE INFORMATION**

| DATABASE | SEARCH DISTANCE (miles) |
|---|---|
| Federal USGS | 1.000 |
| Federal FRDS PWS | Nearest PWS within 1 mile |
| State Database | 1.000 |

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**FEDERAL USGS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 3 | USGS40000185616 | 1/4 - 1/2 Mile East |
| 10 | USGS40000185630 | 1/2 - 1 Mile WNW |
| 20 | USGS40000185638 | 1/2 - 1 Mile WNW |
| 25 | USGS40000185693 | 1/2 - 1 Mile NNE |
| E30 | USGS40000185688 | 1/2 - 1 Mile NE |
| 39 | USGS40000185721 | 1/2 - 1 Mile NNW |

**FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| No PWS System Found | | |

Note: PWS System location is not always the same as well location.

**STATE DATABASE WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CADWR0000018737 | 1/8 - 1/4 Mile ENE |
| 2 | CADWR0000021788 | 1/4 - 1/2 Mile NNE |
| 4 | CADWR0000010657 | 1/4 - 1/2 Mile WSW |
| 5 | CADPR0000005286 | 1/4 - 1/2 Mile South |
| A6 | CADWR8000036354 | 1/2 - 1 Mile SSW |
| A7 | CADWR8000036353 | 1/2 - 1 Mile SSW |
| B8 | 19404 | 1/2 - 1 Mile NNW |
| B9 | 23162 | 1/2 - 1 Mile NNW |
| C11 | CAEDF0000021969 | 1/2 - 1 Mile NNW |
| C12 | CAEDF0000000898 | 1/2 - 1 Mile NNW |
| C13 | CAEDF0000070522 | 1/2 - 1 Mile NNW |
| C14 | CAEDF0000006841 | 1/2 - 1 Mile NNW |
| C15 | CAEDF0000049487 | 1/2 - 1 Mile NNW |
| C16 | CAEDF0000101138 | 1/2 - 1 Mile NNW |
| C17 | CAEDF0000135384 | 1/2 - 1 Mile NNW |
| C18 | CAEDF0000018691 | 1/2 - 1 Mile NNW |
| C19 | CAEDF0000106771 | 1/2 - 1 Mile NNW |
| 21 | 2602 | 1/2 - 1 Mile South |
| D22 | 1060 | 1/2 - 1 Mile North |
| D23 | 23156 | 1/2 - 1 Mile North |
| D24 | CADDW0000021632 | 1/2 - 1 Mile North |
| 26 | CADDW0000018361 | 1/2 - 1 Mile East |
| 27 | CADDW0000012643 | 1/2 - 1 Mile NNW |
| 28 | CADWR0000005798 | 1/2 - 1 Mile WSW |
| 29 | CADWR8000036373 | 1/2 - 1 Mile ESE |
| E31 | CAUSGSN00017400 | 1/2 - 1 Mile NE |
| F32 | CADWR0000037404 | 1/2 - 1 Mile NE |
| F33 | CADWR8000036409 | 1/2 - 1 Mile NE |
| G34 | CALLNL000000837 | 1/2 - 1 Mile WSW |
| G35 | CALLNL000001101 | 1/2 - 1 Mile WSW |
| G36 | CALLNL000000890 | 1/2 - 1 Mile WSW |

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

**STATE DATABASE WELL INFORMATION**

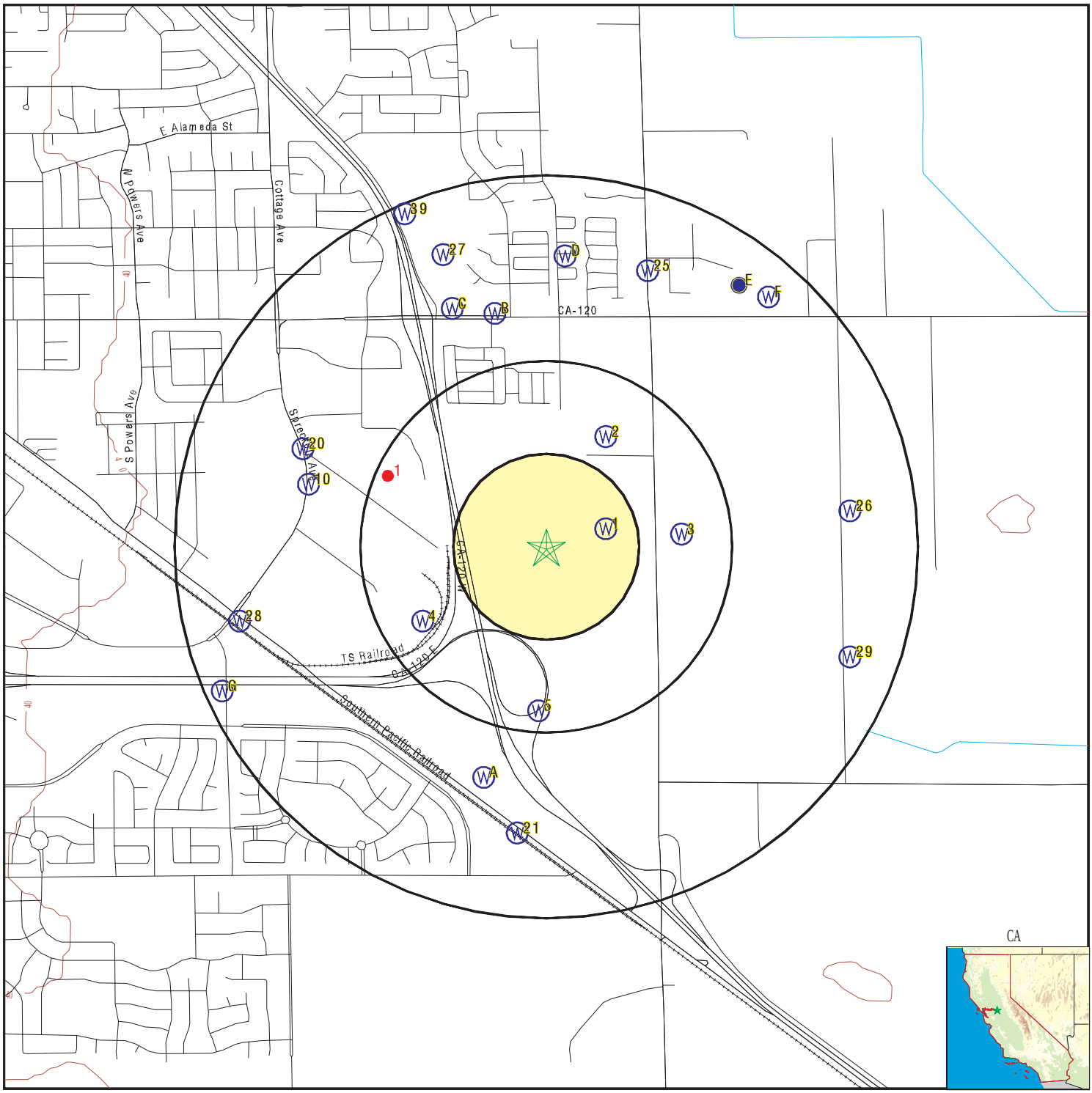
| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| G37 | CALLNL000000693 | 1/2 - 1 Mile WSW |
| G38 | 2596 | 1/2 - 1 Mile WSW |

**OTHER STATE DATABASE INFORMATION**

**STATE OIL/GAS WELL INFORMATION**

| MAP ID | WELL ID | LOCATION FROM TP |
|---|---|---|
| 1 | CAOG14000008529 | 1/4 - 1/2 Mile WNW |

# PHYSICAL SETTING SOURCE MAP - 06422879.2r




- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

| | | | |
|---|---|---|---|
| SITE NAME: | Yosemite Square | CLIENT: | Engeo Inc. |
| ADDRESS: | Austin Road<br>Manteca CA 95336 | CONTACT: | Jason Sedore |
| | | INQUIRY #: | 06422879.2r |
| LAT/LONG: | 37.7886 / 121.184929 | DATE: | March 25, 2021 7:02 pm |

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# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**1**
**ENE** **CA WELLS** **CADWR0000018737**
**1/8 - 1/4 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 02S07E02E001M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 02S07E02E001M | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07E02E001M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**2**
**NNE** **CA WELLS** **CADWR0000021788**
**1/4 - 1/2 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 02S07E02D080M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 02S07E02D080M | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07E02D080M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**3**
**East** **FED USGS** **USGS40000185616**
**1/4 - 1/2 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 002S007E02M002M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19741204 | Well Depth: | 190 |
| Well Depth Units: | ft | Well Hole Depth: | 240 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1974-12-04 |
| Feet below surface: | 16.50 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

---

**4**
**WSW** **CA WELLS** **CADWR0000010657**
**1/4 - 1/2 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 02S07E03K080M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 02S07E03K080M | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07E03K080M&store_num= | | |

GeoTracker Data: Not Reported

---

**5**
**South** **CA WELLS** **CADPR0000005286**
**1/4 - 1/2 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 97529 | Well Type: | UNK |
| Source: | Department of Pesticide Regulation | | |
| Other Name: | 97529 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DPR&samp_date=&global_id=&assigned_name=97529&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**A6**
**SSW** **CA WELLS** **CADWR8000036354**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| State Well #: | 02S07E10B002M | Station ID: | 6907 |
| Well Name: | 02S07E10B002M | Well Use: | Irrigation |
| Well Type: | Single Well | Well Depth: | 235 |
| Basin Name: | Eastern San Joaquin | Well Completion Rpt #: | 252965 |

---

**A7**
**SSW** **CA WELLS** **CADWR8000036353**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| State Well #: | 02S07E10B001M | Station ID: | 27635 |
| Well Name: | 02S07E10B001M | Well Use: | Irrigation |
| Well Type: | Single Well | Well Depth: | 169 |
| Basin Name: | Eastern San Joaquin | Well Completion Rpt #: | 39-627 |

---

**B8**
**NNW** **CA WELLS** **19404**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Seq: | 19404 | Prim sta c: | 3910005-017 |
| Frds no: | 3910005028 | County: | 39 |
| District: | 10 | User id: | PTA |
| System no: | 3910005 | Water type: | G |
| Source nam: | WELL 17 | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 374752.0 | Longitude: | 1211111.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 3910005 | System nam: | Manteca, City Of |
| Hqname: | Not Reported | Address: | 1001 W. CENTER STREET |
| City: | MANTECA | State: | CA |

| | | | |
|---|---|---|---|
| Zip: | 95337 | Zip ext: | Not Reported |
| Pop serv: | 44500 | Connection: | 11417 |
| Area serve: | MANTECA | | |

---

**B9**
**NNW** **CA WELLS** **23162**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Seq: | 23162 | Prim sta c: | J39/005-17TRT |
| Frds no: | 3910005029 | County: | 39 |
| District: | 10 | User id: | PTA |
| System no: | 3910005 | Water type: | G |
| Source nam: | WELL 17 - TREATED - GAC | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 374752.0 | Longitude: | 1211111.0 |
| Precision: | 3 | Status: | AT |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 3910005 | System nam: | Manteca, City Of |
| Hqname: | Not Reported | Address: | 1001 W. CENTER STREET |
| City: | MANTECA | State: | CA |
| Zip: | 95337 | Zip ext: | Not Reported |
| Pop serv: | 44500 | Connection: | 11417 |
| Area serve: | MANTECA | | |

---

**10**
**WNW** **FED USGS** **USGS40000185630**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 002S007E03E002M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19630314 | Well Depth: | 360 |
| Well Depth Units: | ft | Well Hole Depth: | 372 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1963-03-14 |
| Feet below surface: | 30.00 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

---

**C11**
**NNW** **CA WELLS** **CAEDF0000021969**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | T0607700873-MW-8 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-8 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-8&store_num= | | |

GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-8

---

**C12**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000000898**

Well ID: T0607700873-MW-9
Well Type: MONITORING
Source: EDF
Other Name: MW-9
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-9&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-9

---

**C13**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000070522**

Well ID: T0607700873-MW-10
Well Type: MONITORING
Source: EDF
Other Name: MW-10
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-10&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-10

---

**C14**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000006841**

Well ID: T0607700873-MW-7
Well Type: MONITORING
Source: EDF
Other Name: MW-7
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-7&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-7

---

**C15**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000049487**

Well ID: T0607700873-MW-11
Well Type: MONITORING
Source: EDF
Other Name: MW-11
GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-11&store_num=
GeoTracker Data: https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-11

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**C16**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000101138**

| | | | |
|---|---|---|---|
| Well ID: | T0607700873-MW-12 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-12 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-12&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-12 | | |

---

**C17**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000135384**

| | | | |
|---|---|---|---|
| Well ID: | T0607700873-MW-6 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-6 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-6&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-6 | | |

---

**C18**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000018691**

| | | | |
|---|---|---|---|
| Well ID: | T0607700873-MW-13D | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-13D |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-13D&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-13D | | |

---

**C19**
**NNW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CAEDF0000106771**

| | | | |
|---|---|---|---|
| Well ID: | T0607700873-MW-5 | Well Type: | MONITORING |
| Source: | EDF | Other Name: | MW-5 |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=EDF&samp_date=&global_id=T0607700873&assigned_name=MW-5&store_num= | | |
| GeoTracker Data: | https://geotracker.waterboards.ca.gov/profile_report.asp?cmd=MWEDFResults&global_id=T0607700873&assigned_name=MW-5 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**20**
**WNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS** **USGS40000185638**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 002S007E03E001M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19681118 | Well Depth: | 400 |
| Well Depth Units: | ft | Well Hole Depth: | 404 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1968-11-18 |
| Feet below surface: | 30.00 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

---

**21**
**South**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **2602**

| | | | |
|---|---|---|---|
| Seq: | 2602 | Prim sta c: | 02S/07E-10G01 M |
| Frds no: | 3901050001 | County: | 39 |
| District: | 69 | User id: | 39C |
| System no: | 3901050 | Water type: | G |
| Source nam: | WELL 01 | Station ty: | WELL/AMBNT/MUN/INTAKE |
| Latitude: | 374639.0 | Longitude: | 1211107.0 |
| Precision: | 3 | Status: | AR |
| Comment 1: | 9801 MOFFAT BLVD MANTECA CA 95336 | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |

| | | | |
|---|---|---|---|
| System no: | 3901050 | System nam: | Beall Trans-Liner |
| Hqname: | Not Reported | Address: | Not Reported |
| City: | Not Reported | State: | Not Reported |
| Zip: | Not Reported | Zip ext: | Not Reported |
| Pop serv: | 0 | Connection: | 0 |
| Area serve: | Not Reported | | |

---

**D22**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **1060**

| | | | |
|---|---|---|---|
| Seq: | 1060 | Prim sta c: | 01S/07E-34L01 M |
| Frds no: | 3910005011 | County: | 39 |
| District: | 10 | User id: | PTA |
| System no: | 3910005 | Water type: | G |
| Source nam: | WELL 11 - INACTIVE | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 374800.0 | Longitude: | 1211100.0 |
| Precision: | 8 | Status: | IU |

| | | | |
|---|---|---|---|
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3910005 | System nam: | Manteca, City Of |
| Hqname: | Not Reported | Address: | 1001 W. CENTER STREET |
| City: | MANTECA | State: | CA |
| Zip: | 95337 | Zip ext: | Not Reported |
| Pop serv: | 44500 | Connection: | 11417 |
| Area serve: | MANTECA | | |

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**D23**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **23156**

| | | | |
|---|---|---|---|
| Seq: | 23156 | Prim sta c: | J39/005-10TRT |
| Frds no: | 3910005023 | County: | 39 |
| District: | 10 | User id: | PTA |
| System no: | 3910005 | Water type: | G |
| Source nam: | WELL 10 - TREATED | Station ty: | WELL/AMBNT/MUN |
| Latitude: | 374800.0 | Longitude: | 1211100.0 |
| Precision: | 4 | Status: | AT |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3910005 | System nam: | Manteca, City Of |
| Hqname: | Not Reported | Address: | 1001 W. CENTER STREET |
| City: | MANTECA | State: | CA |
| Zip: | 95337 | Zip ext: | Not Reported |
| Pop serv: | 44500 | Connection: | 11417 |
| Area serve: | MANTECA | | |

---

**D24**
**North**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CADDW0000021632**

| | | | |
|---|---|---|---|
| Well ID: | 3910005-011 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 11 - DESTROYED | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3910005-011&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**25**
**NNE**
**1/2 - 1 Mile**
**Higher**

**FED USGS** **USGS40000185693**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 001S007E34R001M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |

| | | | |
|---|---|---|---|
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19740819 | Well Depth: | 72 |
| Well Depth Units: | ft | Well Hole Depth: | 105 |
| Well Hole Depth Units: | ft | | |

| | | | |
|---|---|---|---|
| Ground water levels,Number of Measurements: | 1 | Level reading date: | 1974-08-19 |
| Feet below surface: | 19.00 | Feet to sea level: | Not Reported |
| Note: | Not Reported | | |

---

**26**
**East** **CA WELLS** **CADDW0000018361**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 3901162-001 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901162-001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**27**
**NNW** **CA WELLS** **CADDW0000012643**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 3901052-001 | Well Type: | MUNICIPAL |
| Source: | Department of Health Services | | |
| Other Name: | WELL 01 - INACTIVE | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3901052-001&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**28**
**WSW** **CA WELLS** **CADWR0000005798**
**1/2 - 1 Mile**
**Lower**

| | | | |
|---|---|---|---|
| Well ID: | 02S07E03M080M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 02S07E03M080M | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07E03M080M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

---

**29**
**ESE** **CA WELLS** **CADWR8000036373**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| State Well #: | 02S07E02Q001M | Station ID: | 27337 |
| Well Name: | Not Reported | Well Use: | Unknown |

| | | | |
|---|---|---|---|
| Well Type: | Unknown | Well Depth: | 0 |
| Basin Name: | Eastern San Joaquin | Well Completion Rpt #: | Not Reported |

---

**E30**
**NE** **FED USGS** **USGS40000185688**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Organization ID: | USGS-CA | | |
| Organization Name: | USGS California Water Science Center | | |
| Monitor Location: | 001S007E35P001M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19680822 | Well Depth: | 125 |
| Well Depth Units: | ft | Well Hole Depth: | 125 |
| Well Hole Depth Units: | ft | | |

---

**E31**
**NE** **CA WELLS** **CAUSGSN00017400**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | USGS-374756121102801 | Well Type: | UNK |
| Source: | United States Geological Survey | | |
| Other Name: | USGS-374756121102801 | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=USGSNEW&samp_date=&global_id=&assigned_name=USGS-374756121102801&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**F32**
**NE** **CA WELLS** **CADWR0000037404**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| Well ID: | 01S07E35P001M | Well Type: | UNK |
| Source: | Department of Water Resources | | |
| Other Name: | 01S07E35P001M | GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=01S07E35P001M&store_num= | | |
| GeoTracker Data: | Not Reported | | |

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**F33**
**NE** **CA WELLS** **CADWR8000036409**
**1/2 - 1 Mile**
**Higher**

| | | | |
|---|---|---|---|
| State Well #: | 01S07E35P001M | Station ID: | 3921 |
| Well Name: | Not Reported | Well Use: | Irrigation |
| Well Type: | Unknown | Well Depth: | 125 |
| Basin Name: | Eastern San Joaquin | Well Completion Rpt #: | 22743 |

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

**G34**
**WSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CALLNL000000837**

| | | | |
|---|---|---|---|
| Well ID: | 101580 | Well Type: | MUNICIPAL |
| Source: | Lawrence Livermore National Laboratory | | |
| Other Name: | W-24 SPRECKLES SOUTH-Manteca | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | Not Reported | | |
| GeoTracker Data: | Not Reported | | |

| | | | |
|---|---|---|---|
| Chemical: | Tritium (Hydrogen 3) | Results: | 2.98 |
| Units: | pCi/L | Date: | 10/15/2003 |
| Chemical: | Krypton | Results: | .0000000811509 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Helium-3/Helium-4 | Results: | .00000113379 |
| Units: | atom ratio | Date: | 03/05/2004 |
| Chemical: | Helium-4 | Results: | .000000211589 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Neon | Results: | .000000233746 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Argon | Results: | .000358726 |
| Units: | cm3STP/g | Date: | 03/05/2004 |

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**G35**
**WSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CALLNL000001101**

| | | | |
|---|---|---|---|
| Well ID: | 101581 | Well Type: | MUNICIPAL |
| Source: | Lawrence Livermore National Laboratory | | |
| Other Name: | W-24 SPRECKLES SOUTH-Manteca | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | Not Reported | | |
| GeoTracker Data: | Not Reported | | |

| | | | |
|---|---|---|---|
| Chemical: | Tritium (Hydrogen 3) | Results: | 2.58 |
| Units: | pCi/L | Date: | 10/09/2003 |
| Chemical: | Neon | Results: | .000000235433 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Helium-3/Helium-4 | Results: | .00000110351 |

| | | | |
|---|---|---|---|
| Units: | atom ratio | Date: | 03/05/2004 |
| Chemical: | Helium-4 | Results: | .000000212418 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Argon | Results: | .000357834 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Krypton | Results: | .0000000809169 |
| Units: | cm3STP/g | Date: | 03/05/2004 |

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**G36**
**WSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CALLNL000000890**

| | | | |
|---|---|---|---|
| Well ID: | 101577 | Well Type: | MUNICIPAL |
| Source: | Lawrence Livermore National Laboratory | | |
| Other Name: | W-24 SPRECKLES SOUTH-Manteca | | |
| GAMA PFAS Testing: | Not Reported | | |
| Groundwater Quality Data: | Not Reported | | |
| GeoTracker Data: | Not Reported | | |
| Chemical: | Argon | Results: | .000355278 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Tritium (Hydrogen 3) | Results: | 0 |
| Units: | pCi/L | Date: | 10/09/2003 |
| Chemical: | Neon | Results: | .000000222306 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Helium-4 | Results: | .000000758089 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Helium-3/Helium-4 | Results: | .00000107582 |
| Units: | atom ratio | Date: | 03/05/2004 |
| Chemical: | Krypton | Results: | .0000000809999 |
| Units: | cm3STP/g | Date: | 03/05/2004 |

---

**G37**
**WSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS** **CALLNL000000693**

| | | | |
|---|---|---|---|
| Well ID: | 101578 | Well Type: | MUNICIPAL |
| Source: | Lawrence Livermore National Laboratory | | |
| Other Name: | W-24 SPRECKLES SOUTH-Manteca | | |

| | |
|---|---|
| GAMA PFAS Testing: | Not Reported |
| Groundwater Quality Data: | Not Reported |
| GeoTracker Data: | Not Reported |

| | | | |
|---|---|---|---|
| Chemical: | Helium-3/Helium-4 | Results: | .0000013056 |
| Units: | atom ratio | Date: | 03/05/2004 |
| Chemical: | Helium-4 | Results: | .000000149981 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Neon | Results: | .000000222965 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Krypton | Results: | .0000000765298 |
| Units: | cm3STP/g | Date: | 03/05/2004 |
| Chemical: | Tritium (Hydrogen 3) | Results: | 4.2 |
| Units: | pCi/L | Date: | 10/09/2003 |
| Chemical: | Argon | Results: | .000348375 |
| Units: | cm3STP/g | Date: | 03/05/2004 |

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**G38**
**WSW**
**1/2 - 1 Mile**
**Lower**

**CA WELLS 2596**

| | | | |
|---|---|---|---|
| Seq: | 2596 | Prim sta c: | 02S/07E-04F01 M |
| Frds no: | 3910005007 | County: | 39 |
| District: | 10 | User id: | PTA |
| System no: | 3910005 | Water type: | G |
| Source nam: | WELL 07 - INACTIVE | Station ty: | WELL/AMBNT/MUN/INTAKE/SUPPLY |
| Latitude: | 374700.0 | Longitude: | 1211200.0 |
| Precision: | 8 | Status: | IU |
| Comment 1: | Not Reported | Comment 2: | Not Reported |
| Comment 3: | Not Reported | Comment 4: | Not Reported |
| Comment 5: | Not Reported | Comment 6: | Not Reported |
| Comment 7: | Not Reported | | |
| System no: | 3910005 | System nam: | Manteca, City Of |
| Hqname: | Not Reported | Address: | 1001 W. CENTER STREET |
| City: | MANTECA | State: | CA |
| Zip: | 95337 | Zip ext: | Not Reported |
| Pop serv: | 44500 | Connection: | 11417 |
| Area serve: | MANTECA | | |

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**39**
**NNW**
**1/2 - 1 Mile**
**Lower**

**FED USGS USGS40000185721**

| | |
|---|---|
| Organization ID: | USGS-CA |
| Organization Name: | USGS California Water Science Center |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

| | | | |
|---|---|---|---|
| Monitor Location: | 001S007E34L001M | Type: | Well |
| Description: | Not Reported | HUC: | 18040005 |
| Drainage Area: | Not Reported | Drainage Area Units: | Not Reported |
| Contrib Drainage Area: | Not Reported | Contrib Drainage Area Unts: | Not Reported |
| Aquifer: | Central Valley aquifer system | | |
| Formation Type: | Not Reported | Aquifer Type: | Not Reported |
| Construction Date: | 19700101 | Well Depth: | 370 |
| Well Depth Units: | ft | Well Hole Depth: | 370 |
| Well Hole Depth Units: | ft | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

**1**
**WNW**
**1/4 - 1/2 Mile**

**OIL_GAS** **CAOG14000008529**

| | | | |
|---|---|---|---|
| API #: | 0407720177 | Well #: | 1-3 |
| Well Status: | Plugged | Well Type: | Dry Hole |
| Lease Name: | Spreckels Sugar | Field Name: | Any Field |
| Area Name: | Any Area | GIS Source: | hud |
| Confidential Well: | N | Directionally Drilled: | N |
| Spud Date: | 12/15/1972 | | |

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
# RADON

**AREA RADON INFORMATION**

State Database: CA Radon

Radon Test Results

| Zipcode | Num Tests | > 4 pCi/L |
|---|---|---|
| 95336 | 5 | 0 |

Federal EPA Radon Zone for SAN JOAQUIN 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 Zip Code: 95336

Number of sites tested: 3

| Area | Average Activity | % <4 pCi/L | % 4-20 pCi/L | % >20 pCi/L |
|---|---|---|---|---|
| Living Area - 1st Floor | 0.967 pCi/L | 100% | 0% | 0% |
| Living Area - 2nd Floor | Not Reported | Not Reported | Not Reported | Not Reported |
| Basement | Not Reported | Not Reported | Not Reported | Not Reported |

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

## HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

## HYDROGEOLOGIC INFORMATION

AQUIFLOW$^{R}$ Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

## GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

## OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

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.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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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DRAFT

# APPENDIX B

## ENVIRONMENTAL DATA RESOURCES, INC.

## Historical Topographic Map Report

Yosemite Square

Austin Road

Manteca, CA 95336

Inquiry Number: 6422879.4

March 25, 2021

# EDR Historical Topo Map Report

## with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# EDR Historical Topo Map Report

03/25/21

**Site Name:**

Yosemite Square
Austin Road
Manteca, CA 95336
EDR Inquiry # 6422879.4

**Client Name:**

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jason Sedore

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Engeo 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:***

**P.O.#** NA

**Project:** Yosemite Square

***Coordinates:***

| | |
|---|---|
| **Latitude:** | 37.7886 37° 47' 19" North |
| **Longitude:** | -121.184929 -121° 11' 6" West |
| **UTM Zone:** | Zone 10 North |
| **UTM X Meters:** | 659821.48 |
| **UTM Y Meters:** | 4183911.64 |
| **Elevation:** | 49.00' above sea level |

**Maps Provided:**

2012
1994
1991
1987
1976
1968
1952
1914

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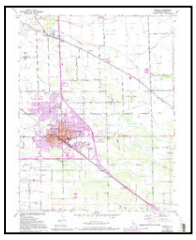
## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2012 Source Sheets

Manteca
2012
7.5-minute, 24000

### 1994 Source Sheets

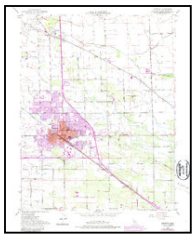


Manteca
1994
7.5-minute, 24000
Aerial Photo Revised 1982

### 1991 Source Sheets

Manteca
1991
7.5-minute, 24000
Aerial Photo Revised 1982

### 1987 Source Sheets



Manteca
1987
7.5-minute, 24000
Aerial Photo Revised 1982

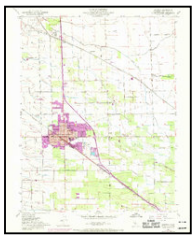
## *Topo Sheet Key*

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1976 Source Sheets

Manteca
1976
7.5-minute, 24000
Aerial Photo Revised 1976

### 1968 Source Sheets



Manteca
1968
7.5-minute, 24000
Aerial Photo Revised 1968

### 1952 Source Sheets

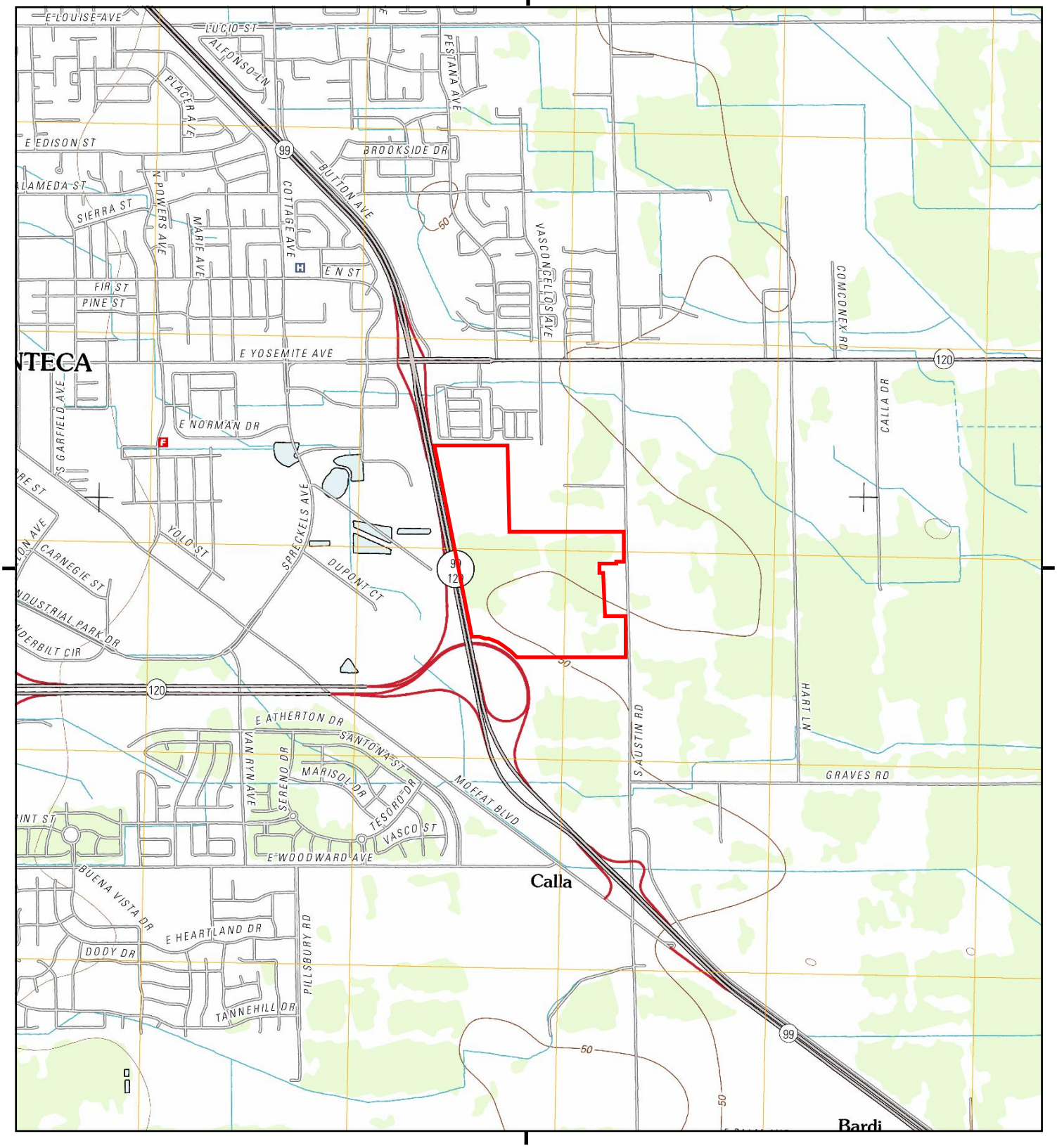
Manteca
1952
7.5-minute, 24000
Aerial Photo Revised 1949

### 1914 Source Sheets

Manteca
1914
7.5-minute, 31680

# Historical Topo Map

2012




This report includes information from the following map sheet(s).

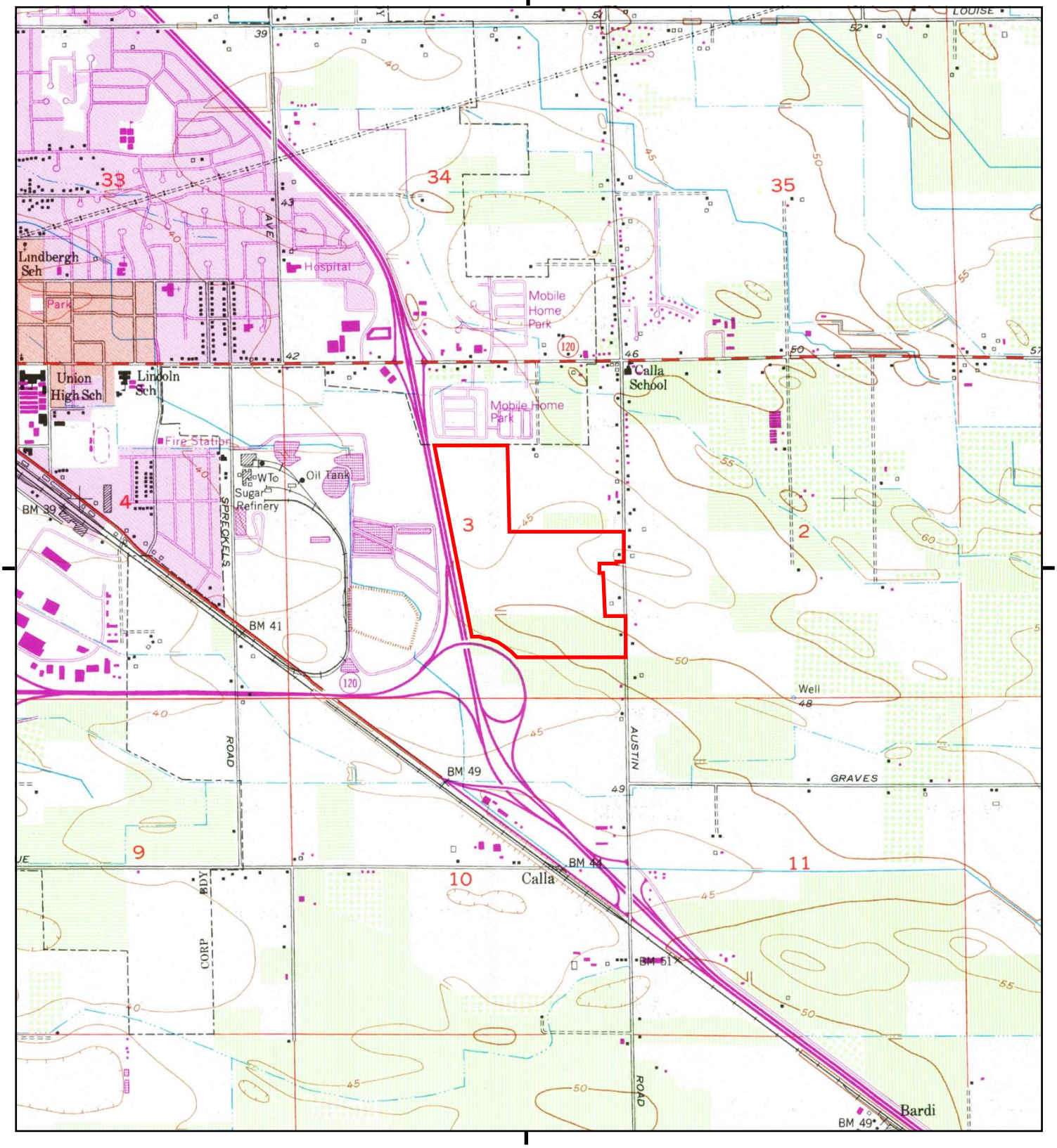
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Manteca, 2012, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

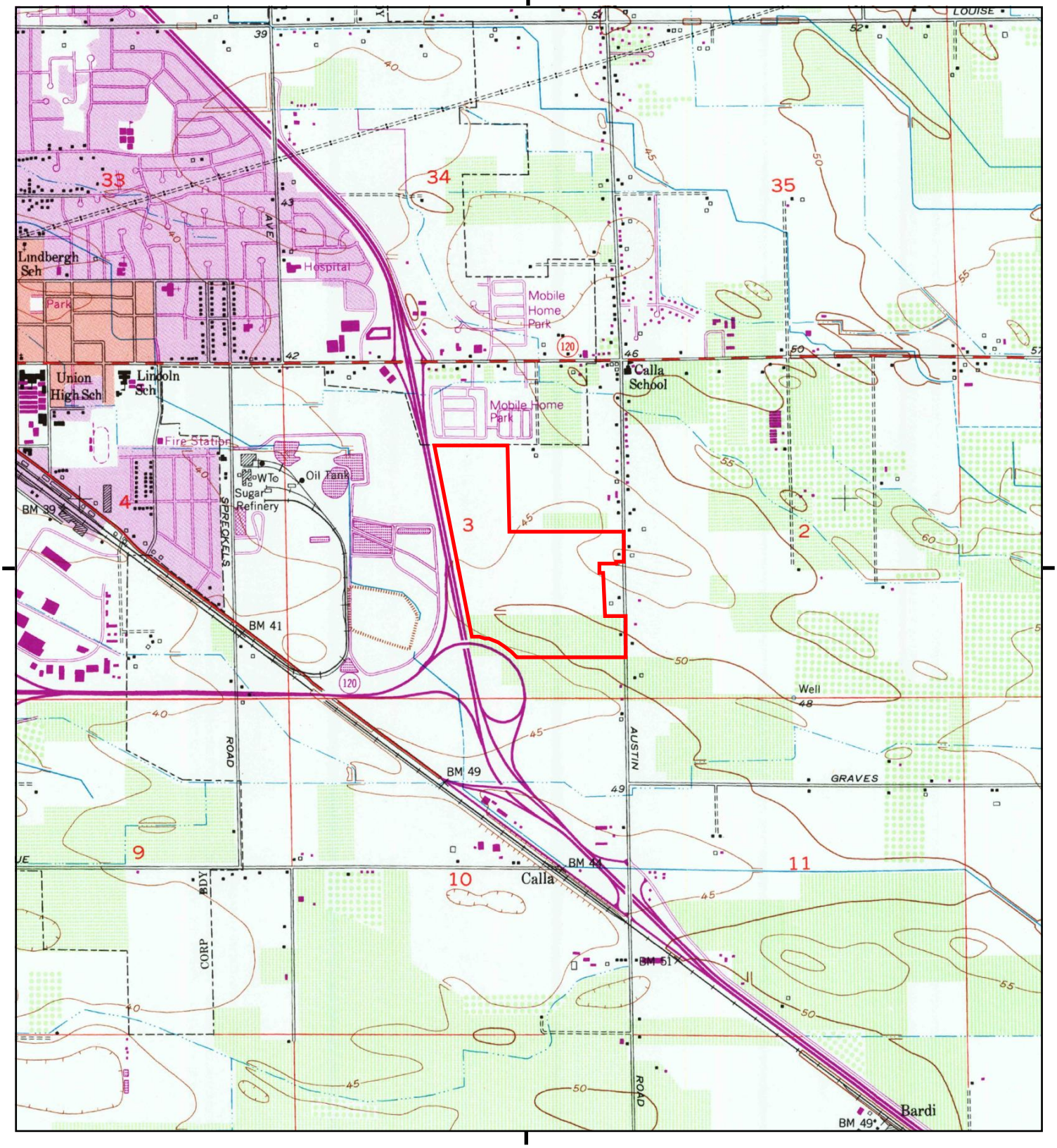
TP, Manteca, 1994, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1991




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

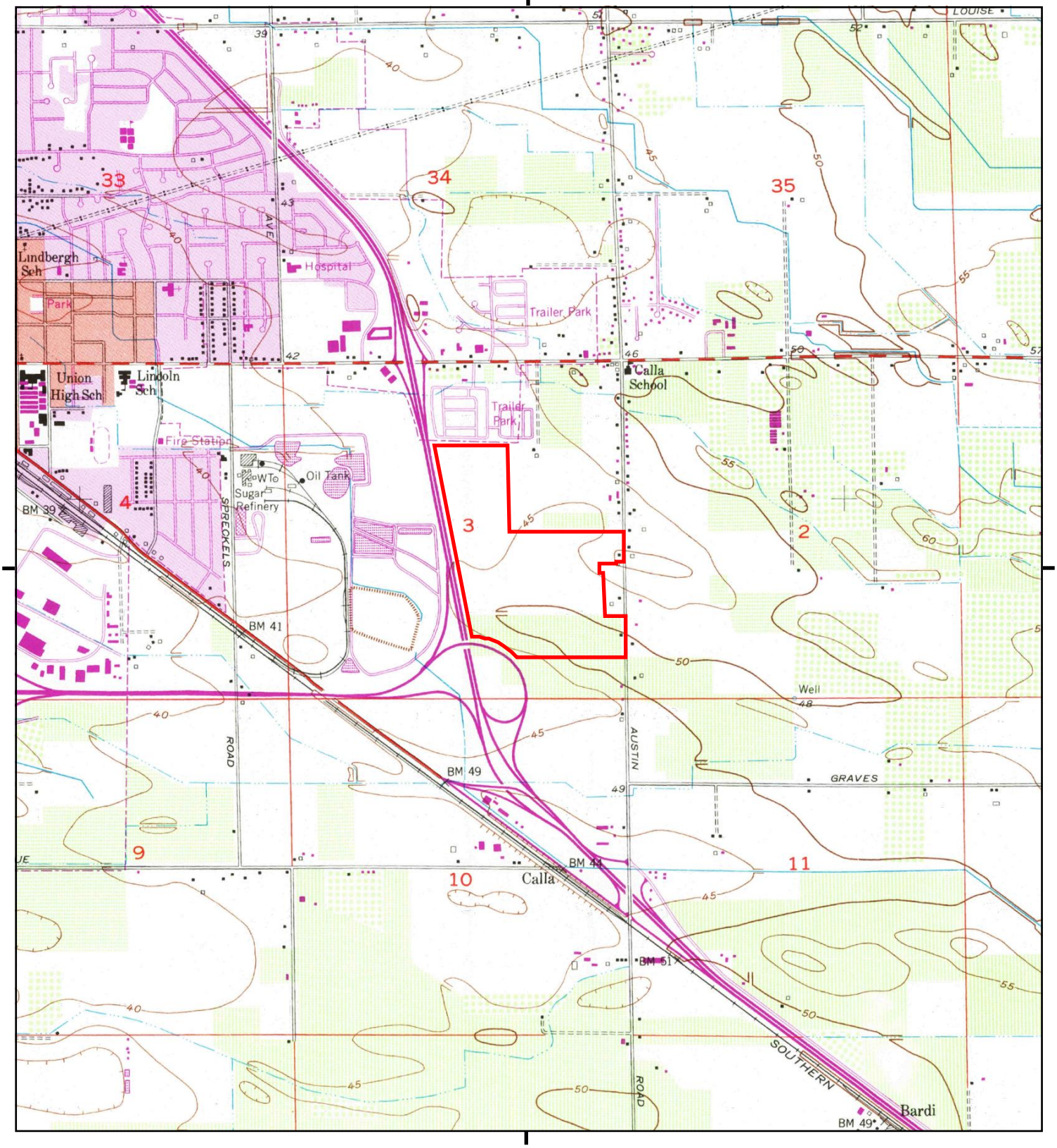
TP, Manteca, 1991, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1987




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

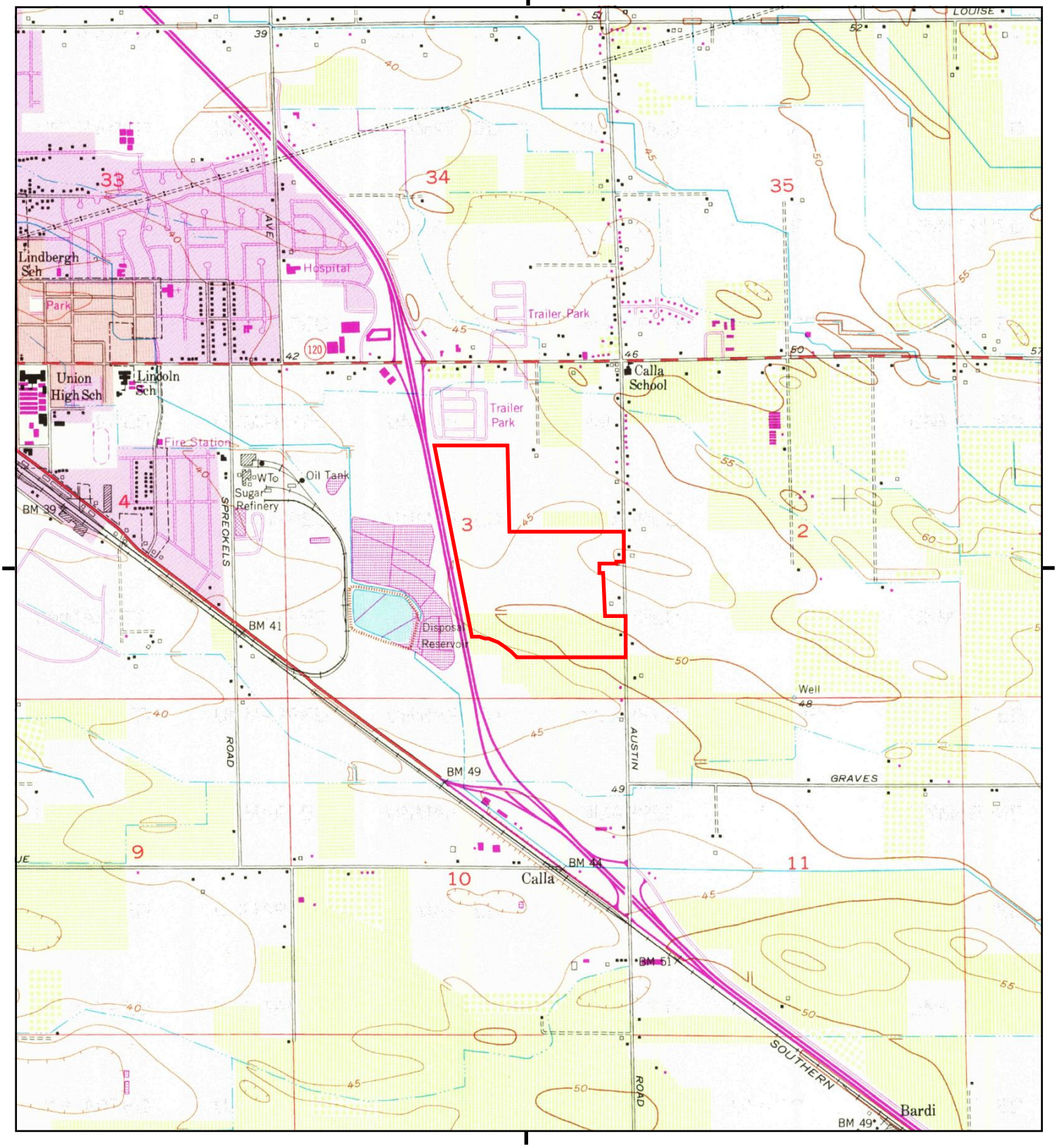
TP, Manteca, 1987, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1976




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

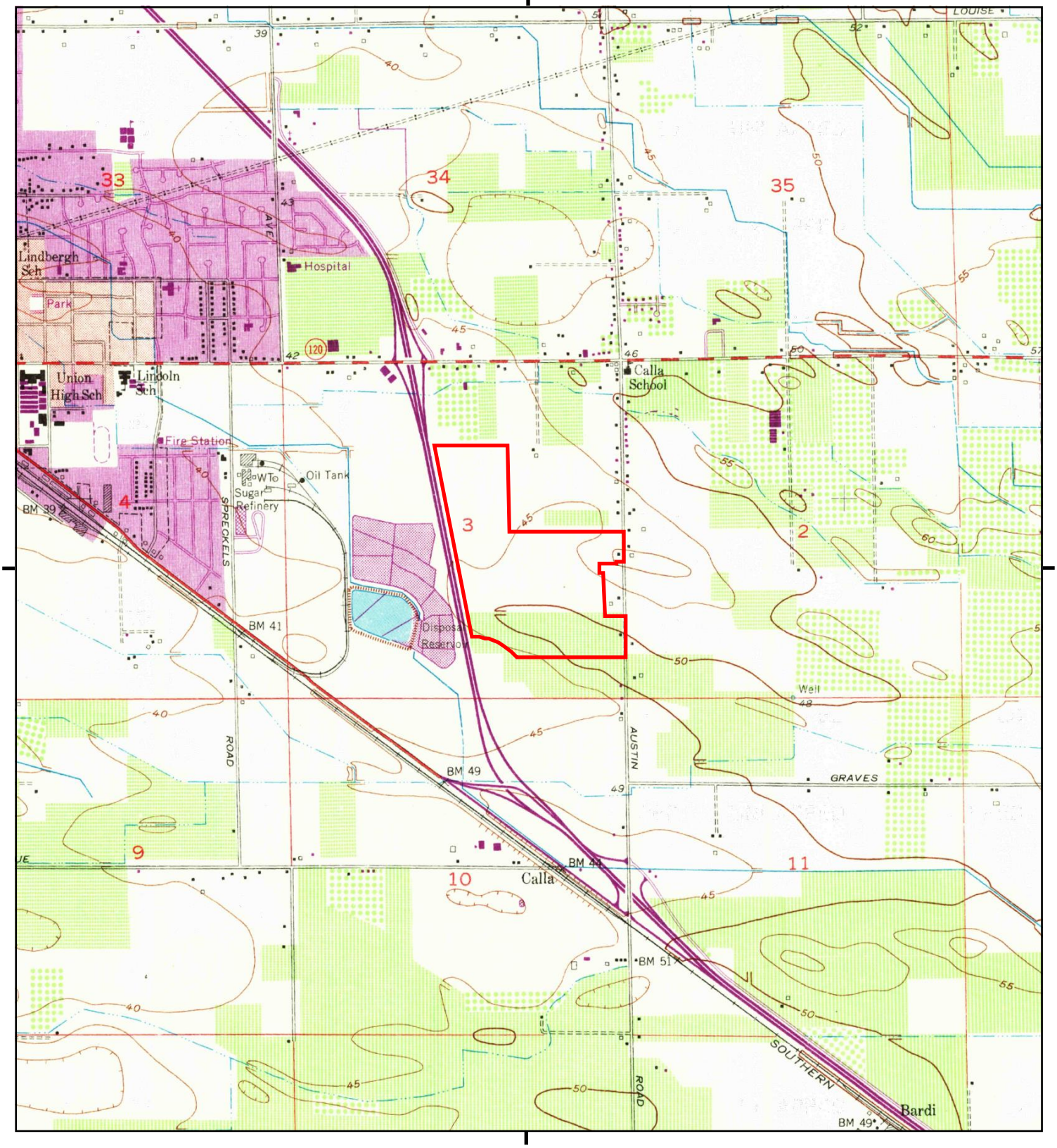
TP, Manteca, 1976, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1968

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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

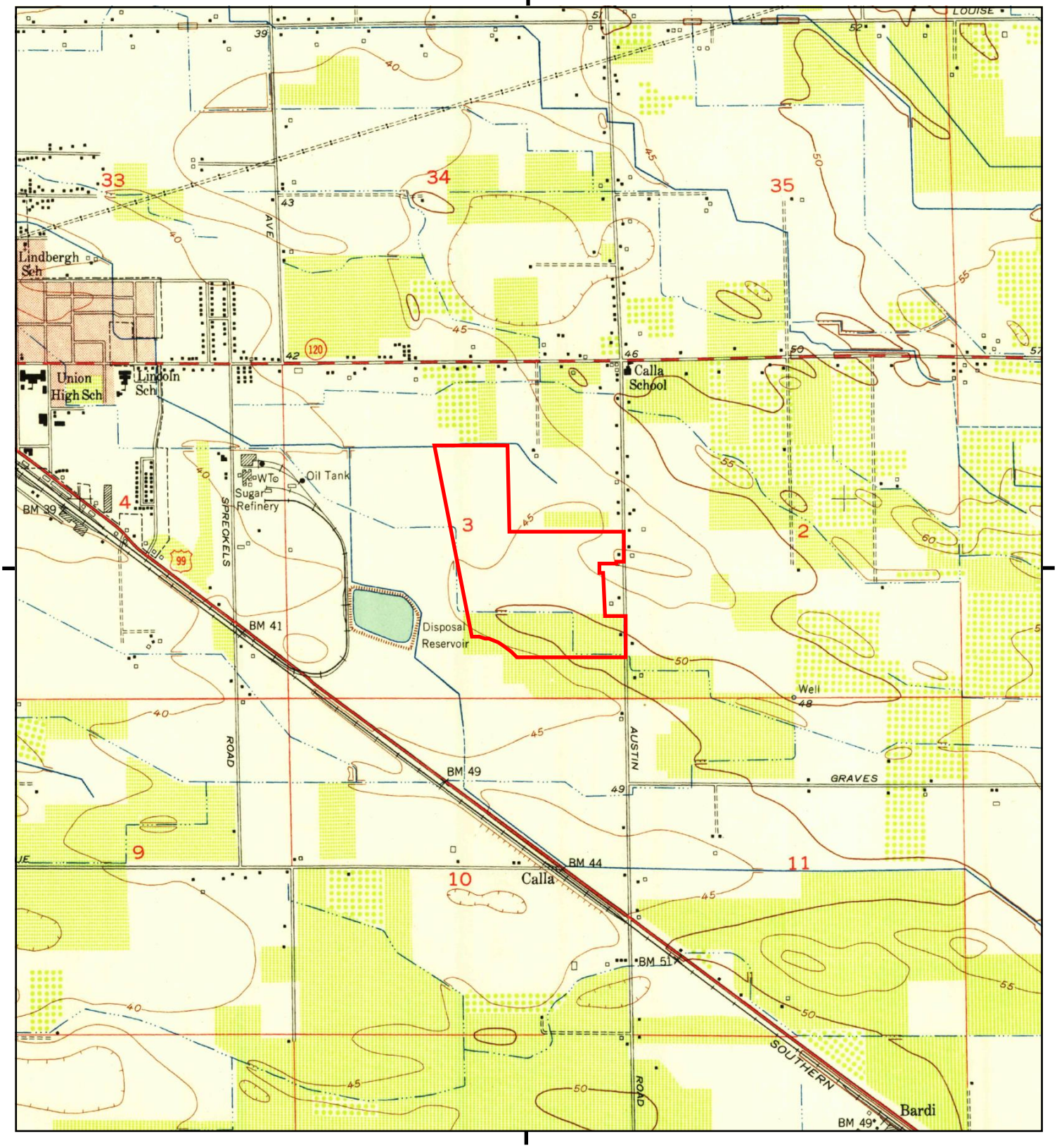
TP, Manteca, 1968, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1952




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

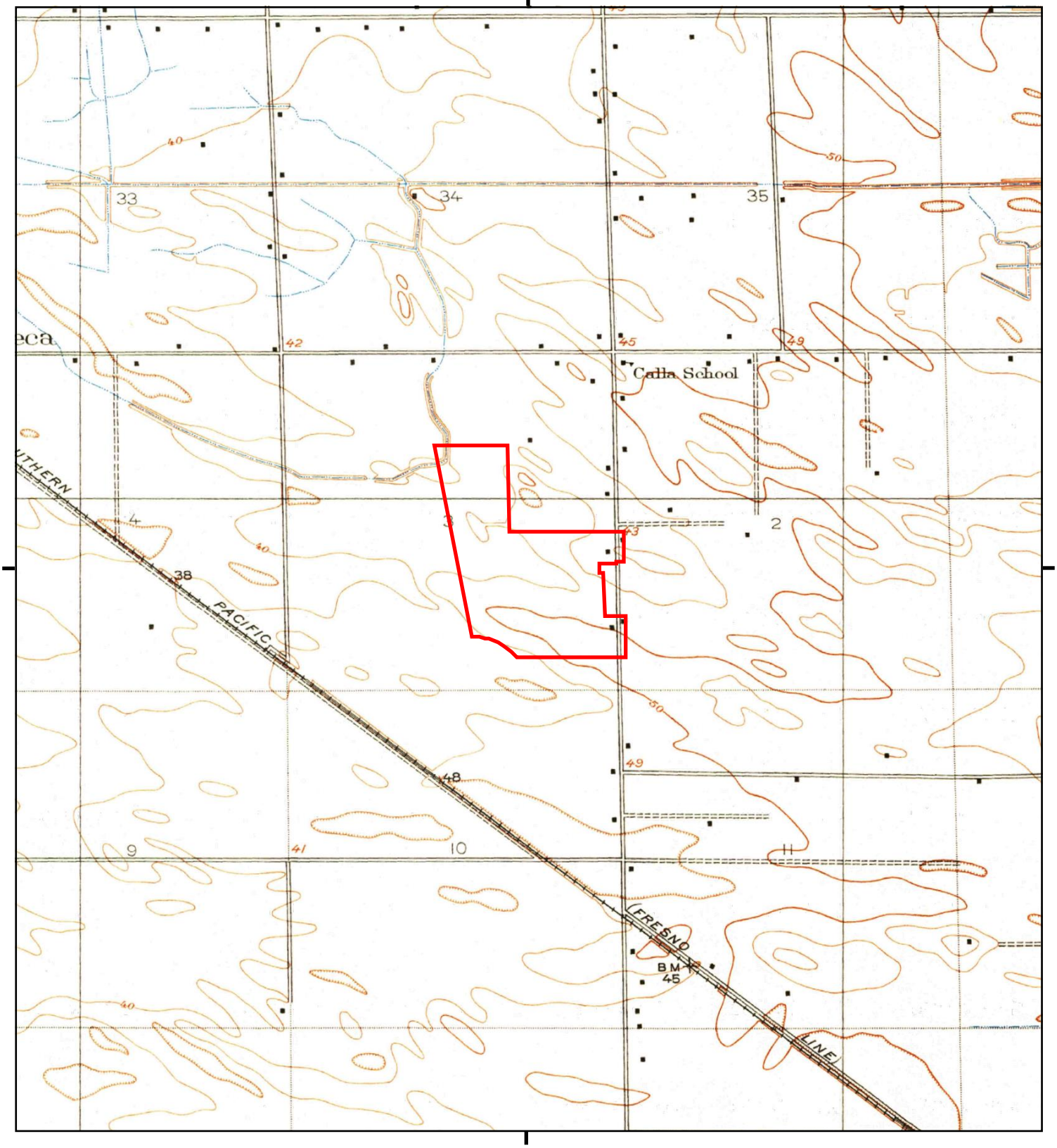
TP, Manteca, 1952, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

# Historical Topo Map

1914




This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Manteca, 1914, 7.5-minute

SITE NAME: Yosemite Square
ADDRESS: Austin Road
Manteca, CA 95336
CLIENT: Engeo Inc.

N

DRAFT

# APPENDIX C

## ENVIRONMENTAL DATA RESOURCES, INC.

## Aerial Photo Decade Package

**Yosemite Square**

Austin Road

Manteca, CA 95336

Inquiry Number: 6422879.8

March 25, 2021

# 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

03/25/21

**Site Name:**

Yosemite Square
Austin Road
Manteca, CA 95336
EDR Inquiry # 6422879.8

**Client Name:**

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jason Sedore

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

***Search Results:***

| Year | Scale | Details | Source |
|---|---|---|---|
| 2016 | 1"=500' | Flight Year: 2016 | USDA/NAIP |
| 2012 | 1"=500' | Flight Year: 2012 | USDA/NAIP |
| 2009 | 1"=500' | Flight Year: 2009 | USDA/NAIP |
| 2006 | 1"=500' | Flight Year: 2006 | USDA/NAIP |
| 1993 | 1"=500' | Acquisition Date: May 22, 1993 | USGS/DOQQ |
| 1982 | 1"=500' | Flight Date: June 26, 1982 | USDA |
| 1975 | 1"=500' | Flight Date: November 08, 1975 | Cartwright |
| 1968 | 1"=500' | Flight Date: May 01, 1968 | USGS |
| 1963 | 1"=500' | Flight Date: June 03, 1963 | USDA |
| 1957 | 1"=500' | Flight Date: August 26, 1957 | USDA |
| 1937 | 1"=500' | Flight Date: August 14, 1937 | USDA |

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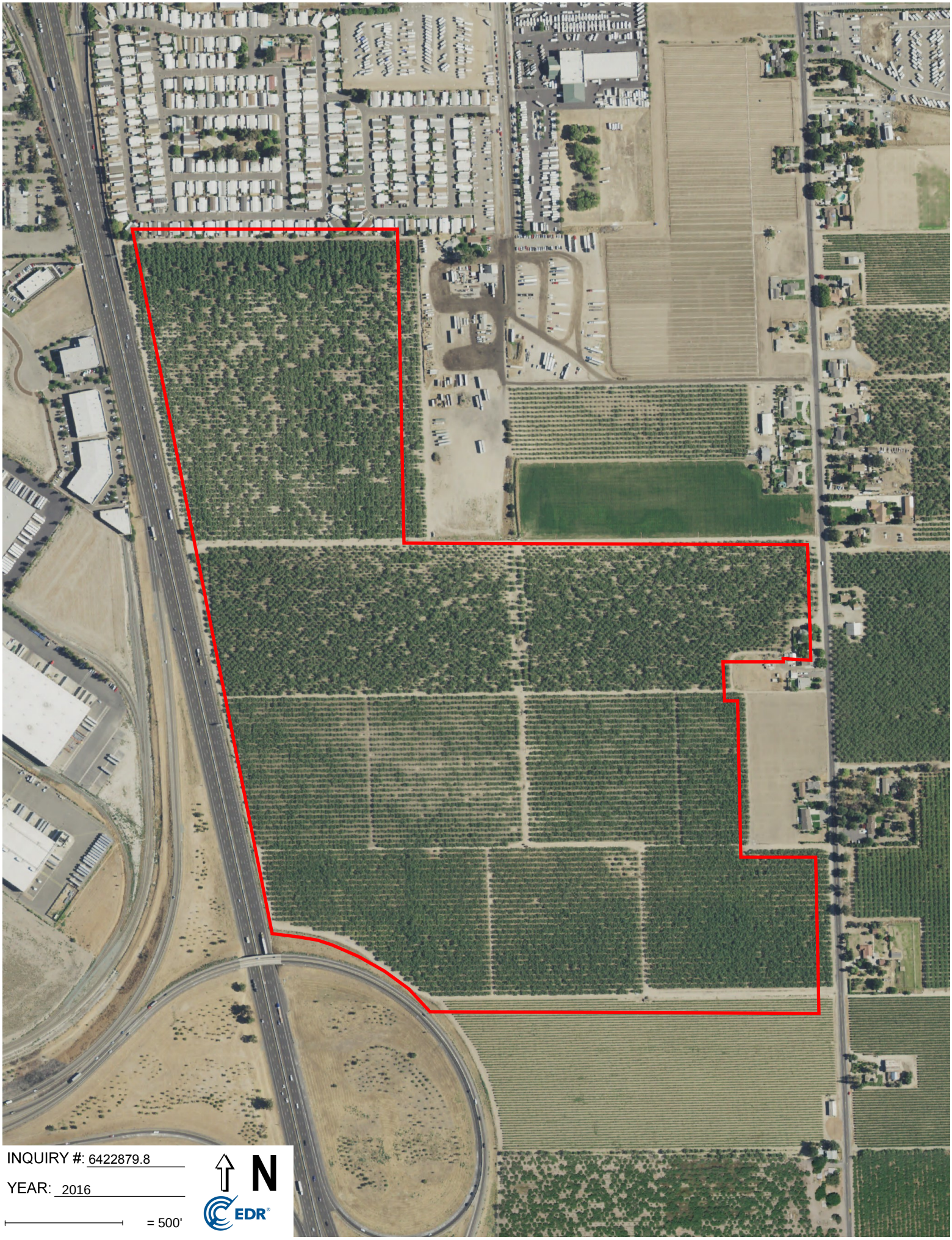
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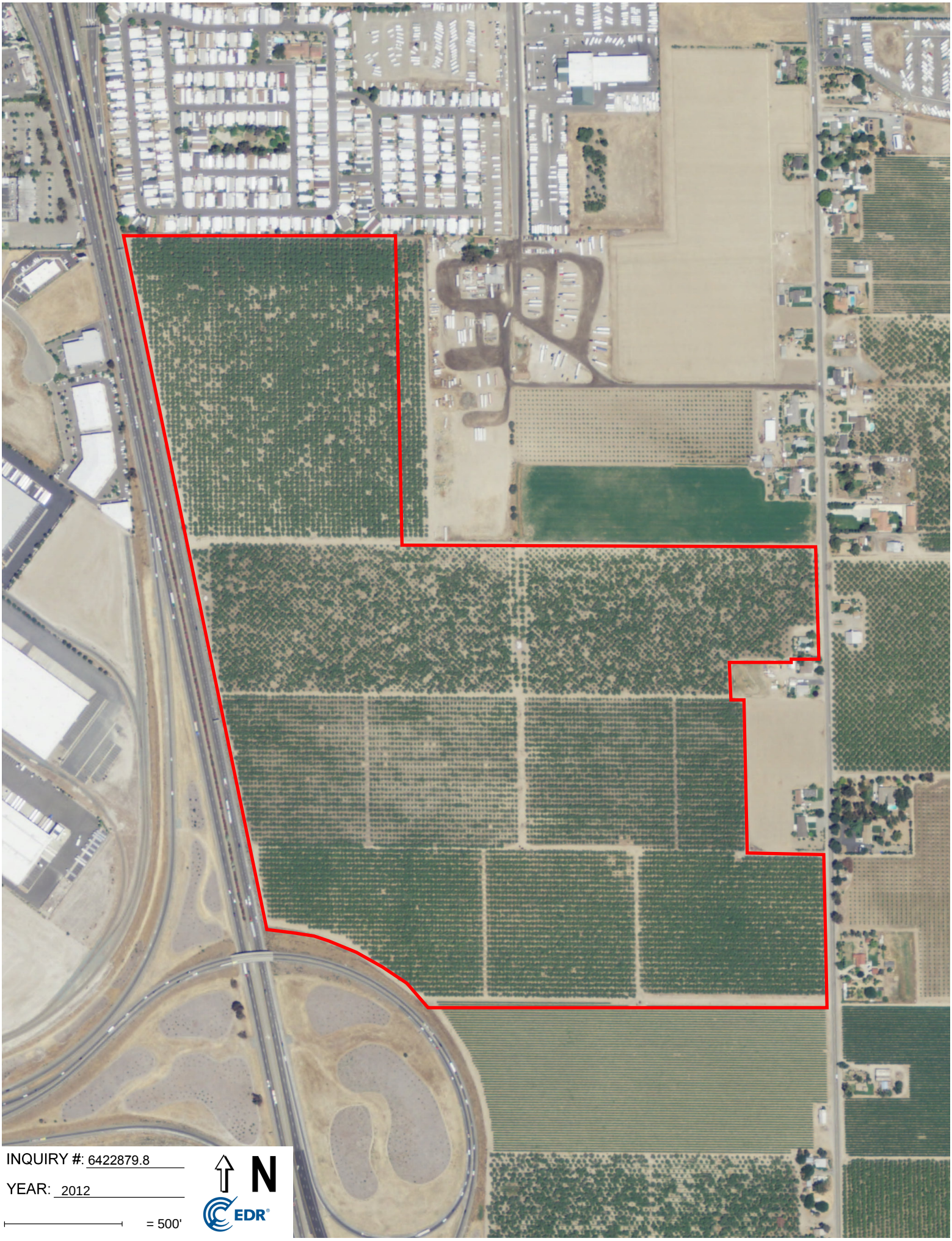
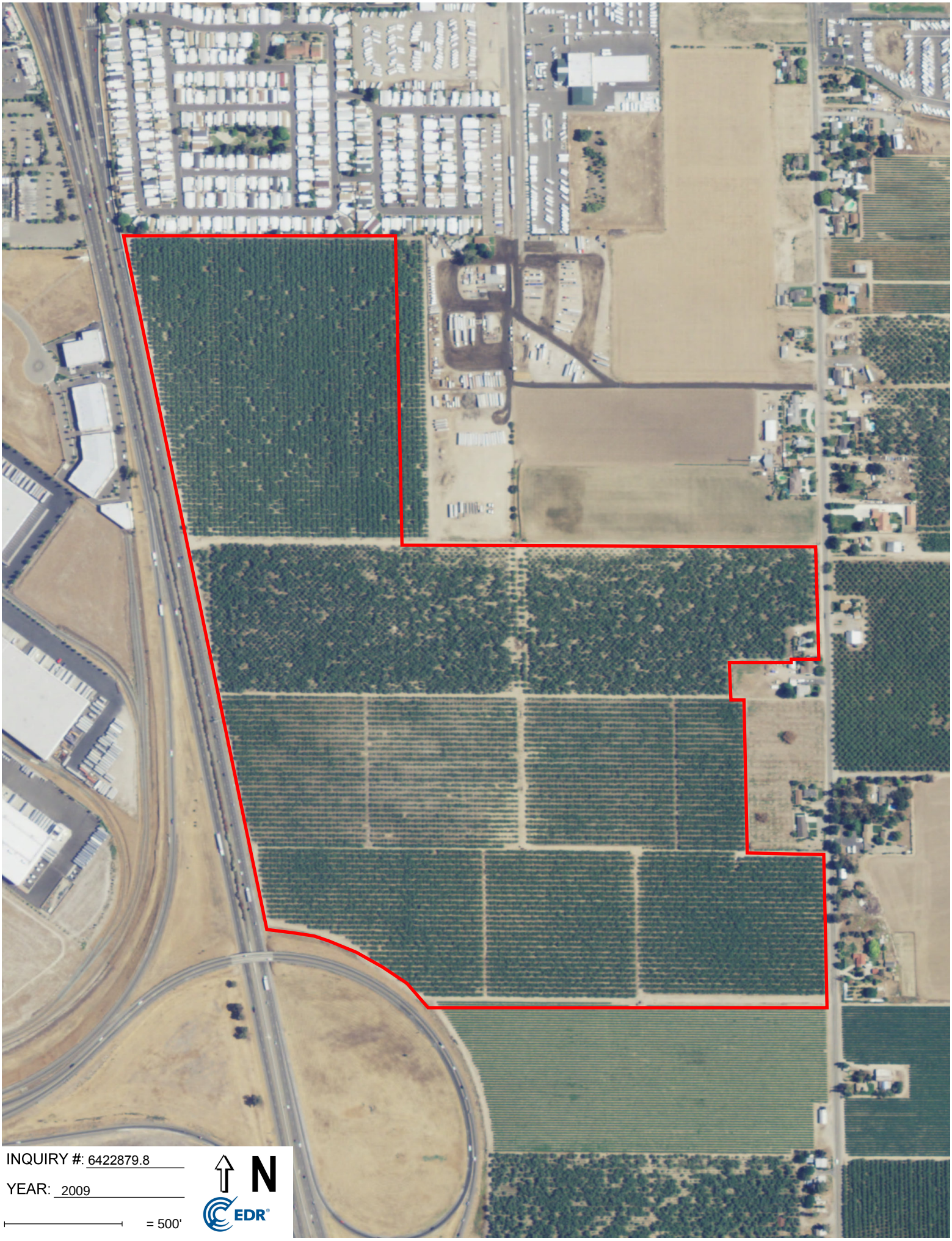
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6422879.8
YEAR: 2012
= 500'
N
EDR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YEAR: 2009
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EDR

INQUIRY #: 6422879.8
YEAR: 2006
= 500'
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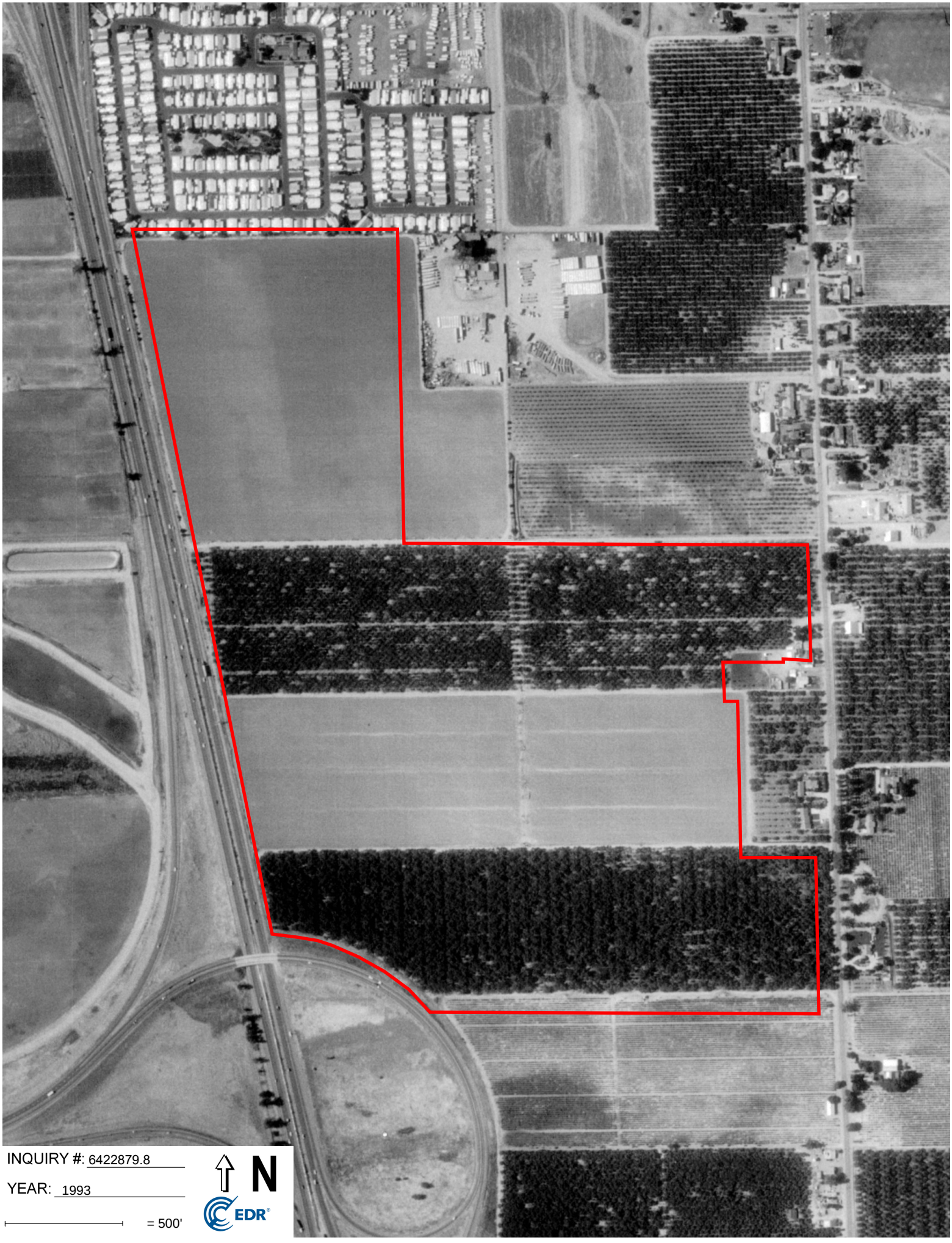
EDR


INQUIRY #: 6422879.8
YEAR: 1993
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EDR

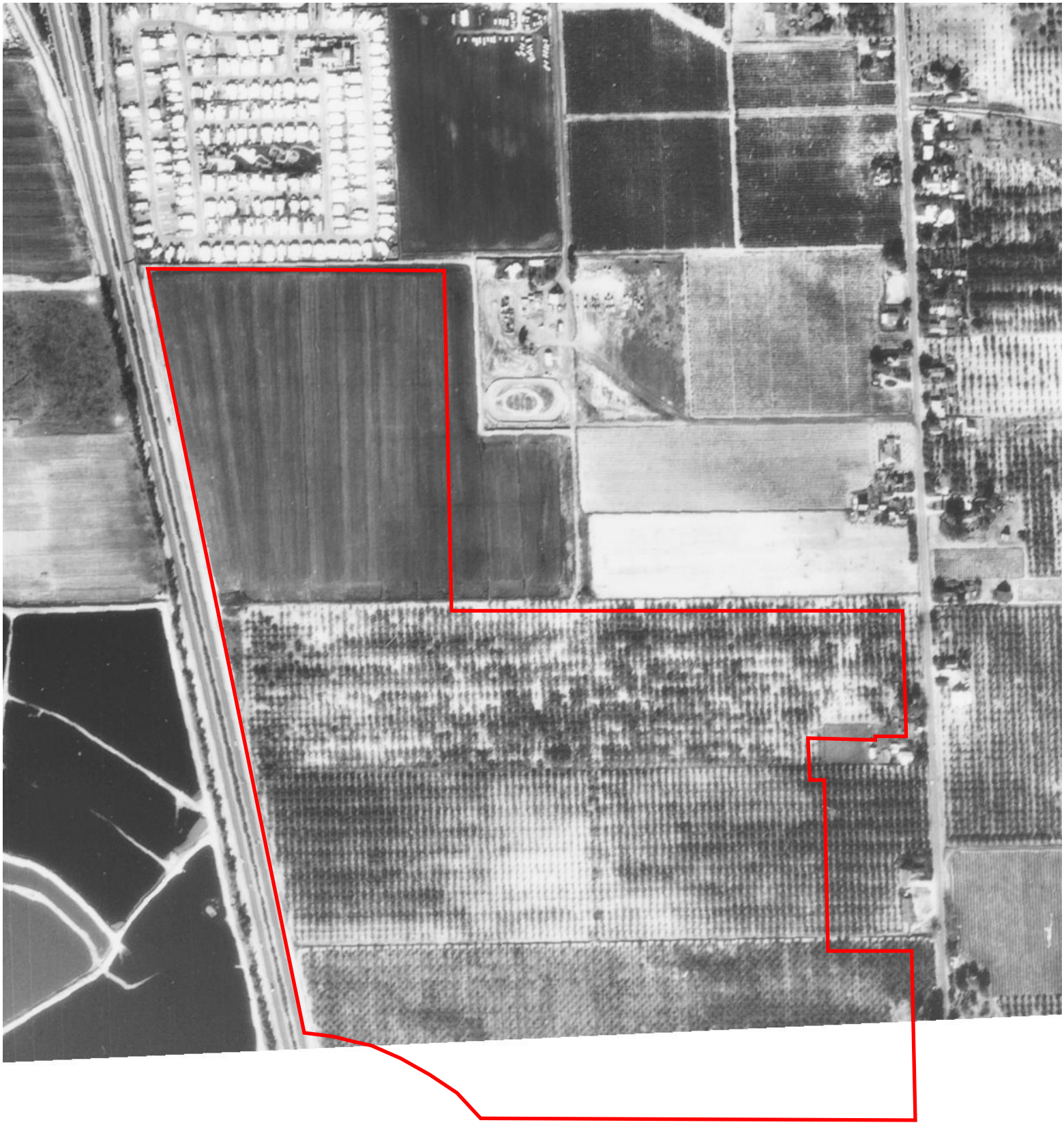
INQUIRY #: 6422879.8

YEAR: 1982

= 500'

N

EDR



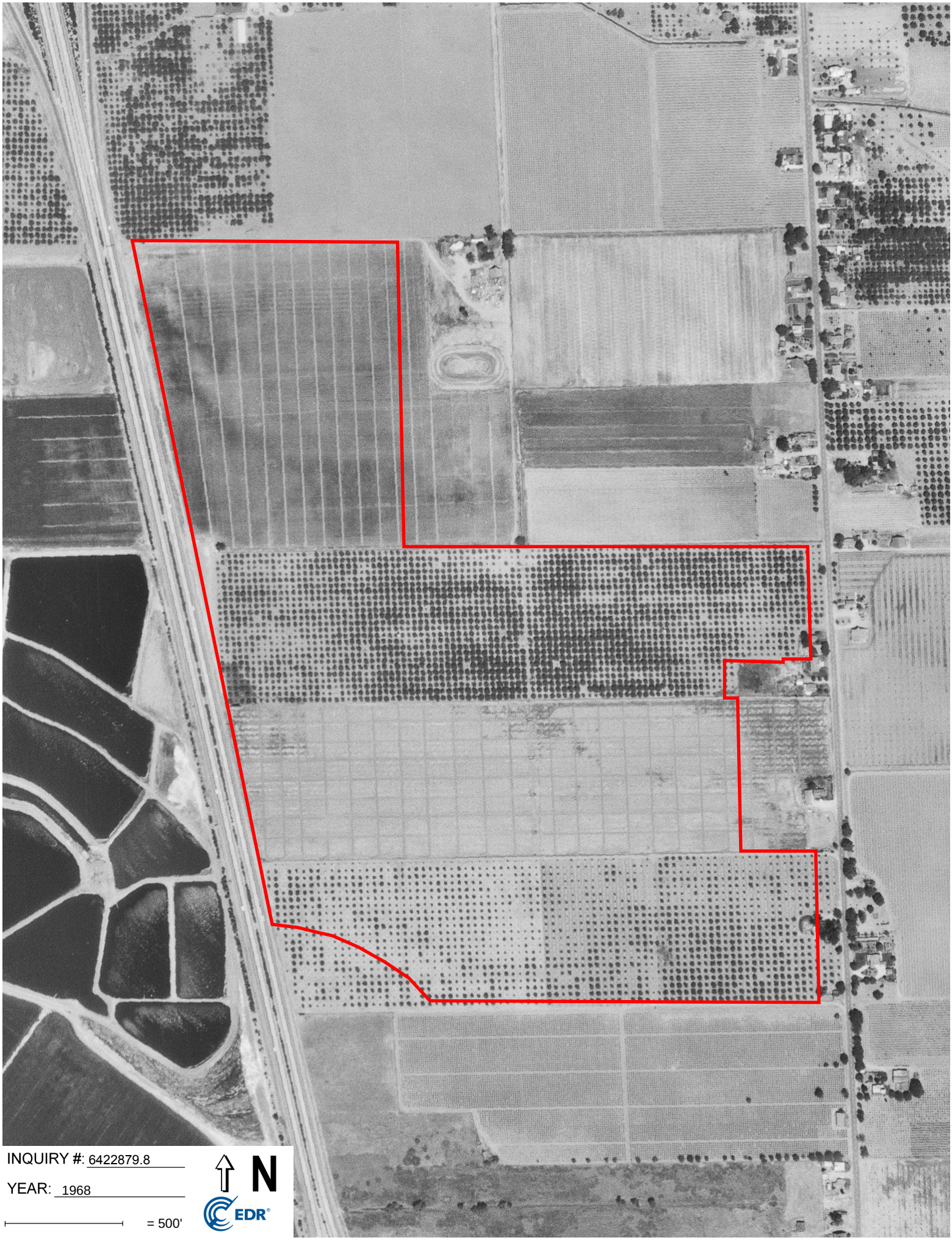
INQUIRY #: 6422879.8

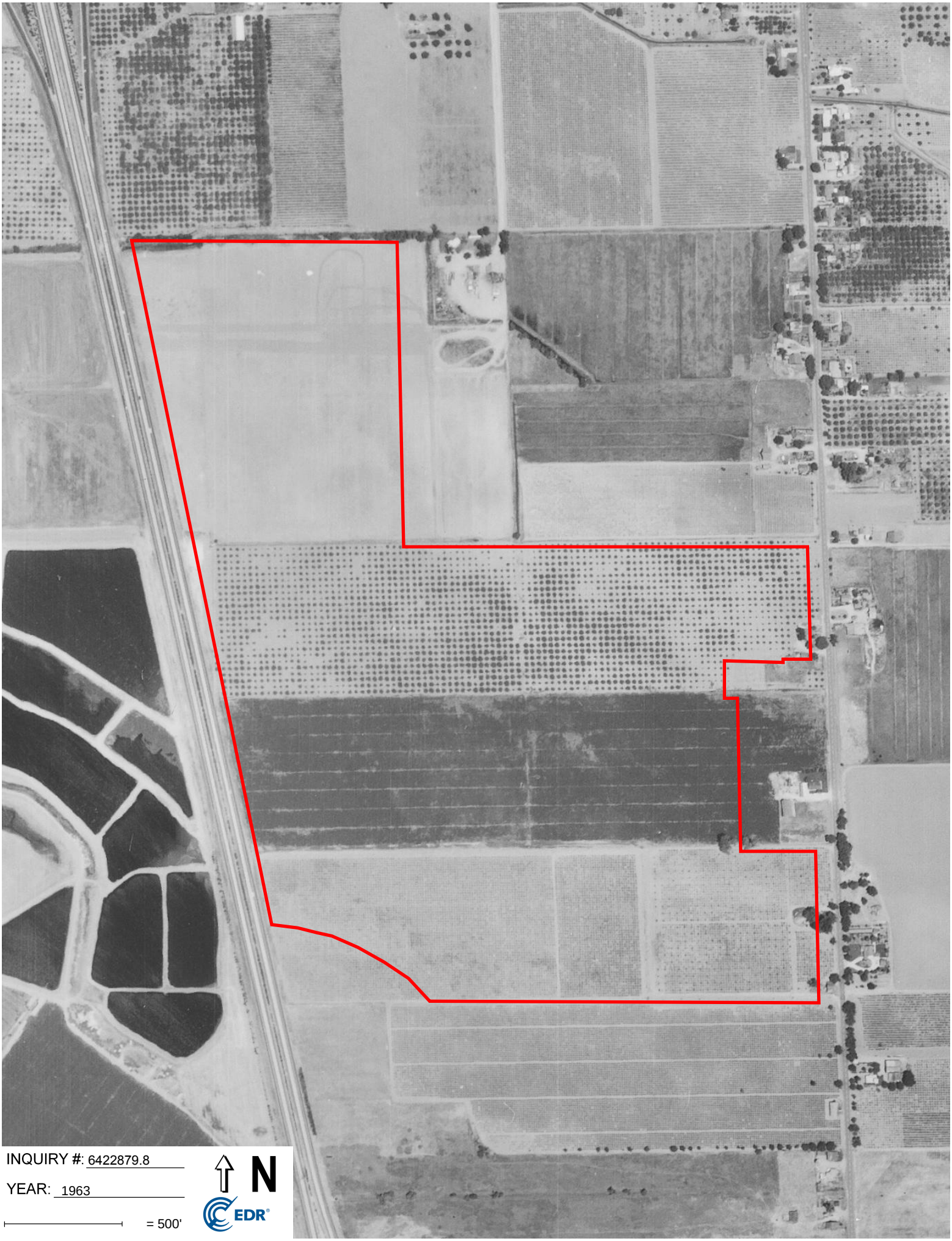
YEAR: 1975

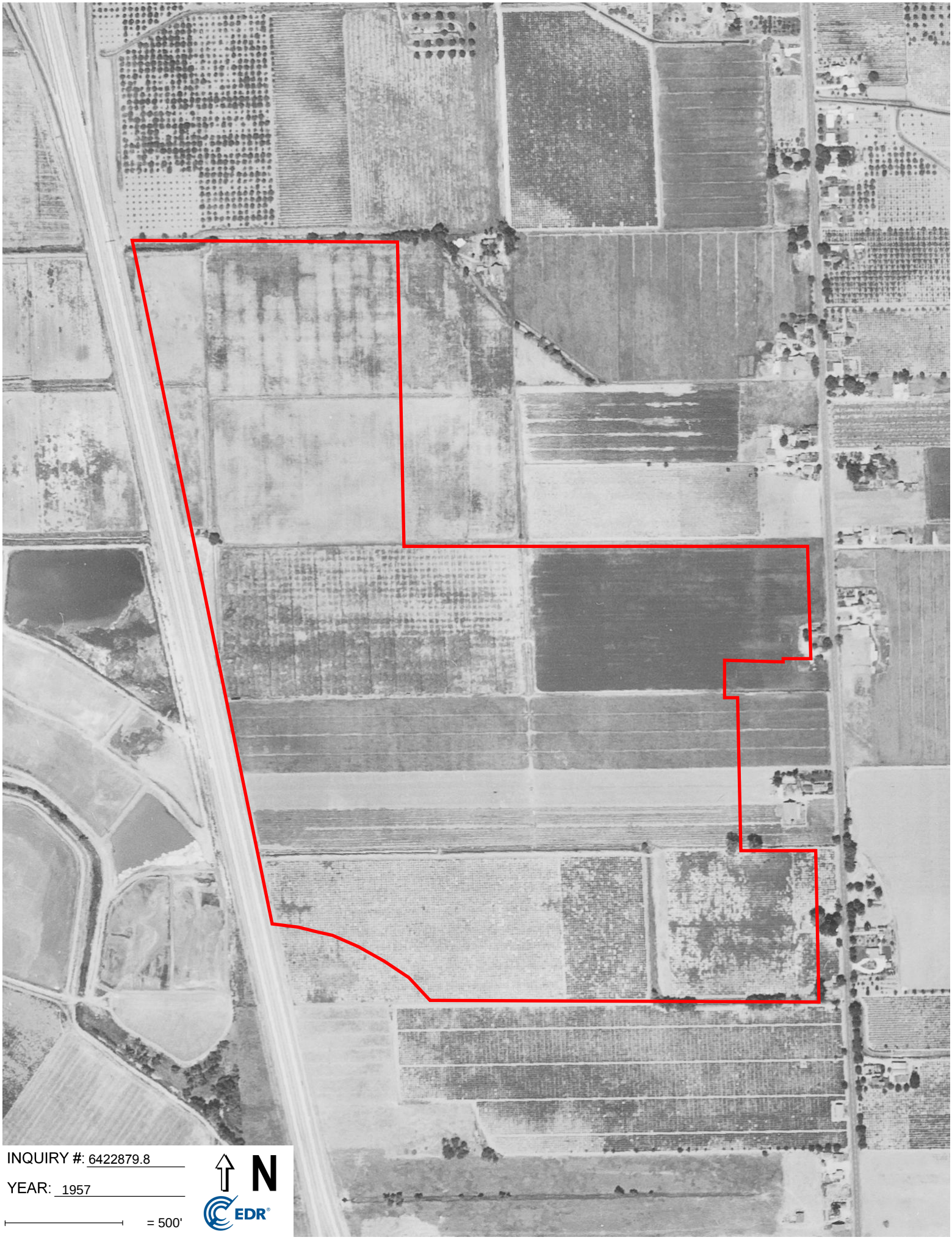
= 500'

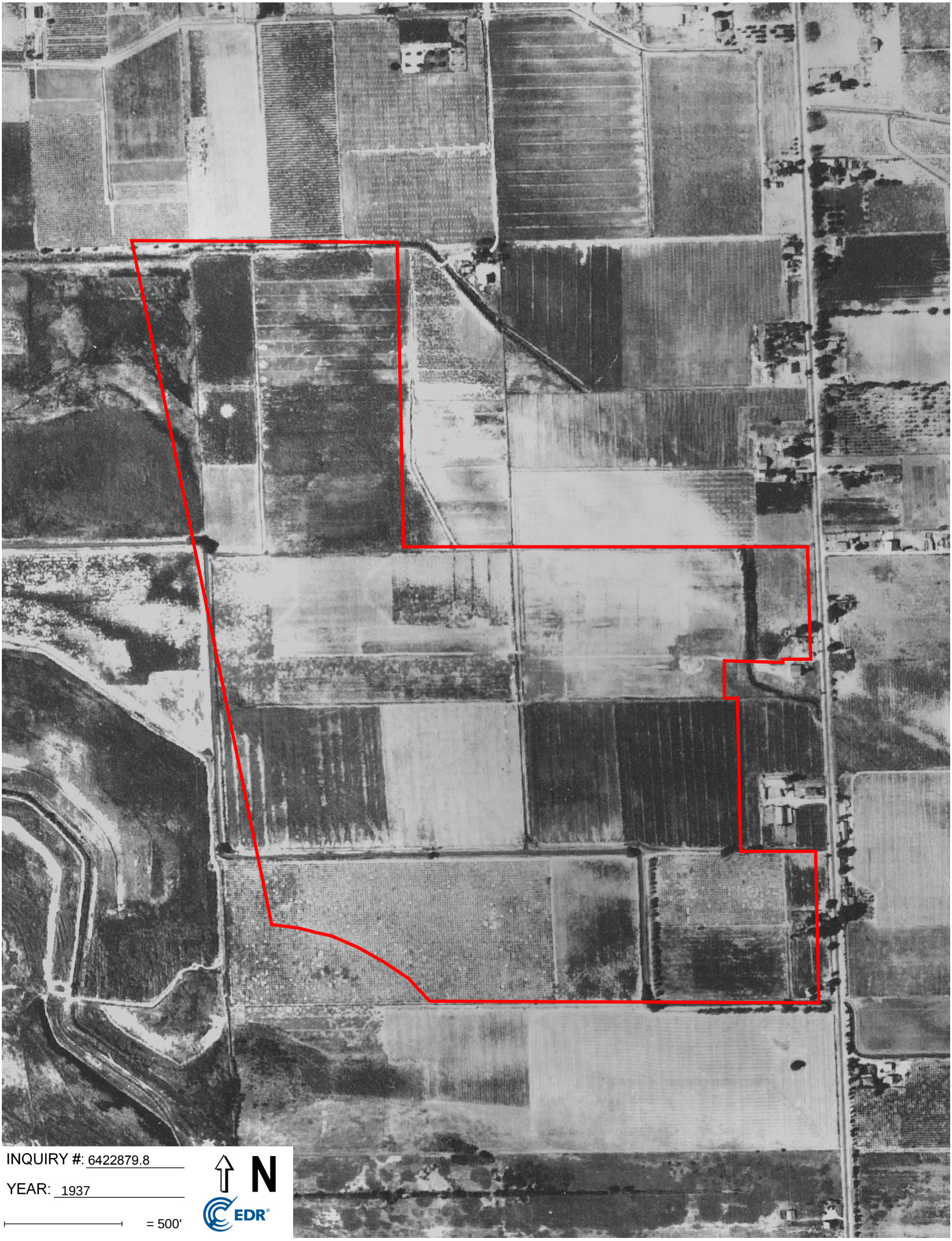
N

EDR


INQUIRY #: 6422879.8
YEAR: 1968
= 500'
N
EDR


INQUIRY #: 6422879.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 6422879.8
YEAR: 1957
= 500'
N
EDR


INQUIRY #: 6422879.8
YEAR: 1937
= 500'
N
EDR

DRAFT

# APPENDIX D

## ENVIRONMENTAL DATA RESOURCES, INC.

## Sanborn Map Report

Yosemite Square

Austin Road

Manteca, CA 95336

Inquiry Number: 6422879.3

March 25, 2021

# Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

# Certified Sanborn® Map Report

03/25/21

**Site Name:**

Yosemite Square
Austin Road
Manteca, CA 95336
EDR Inquiry # 6422879.3

**Client Name:**

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jason Sedore

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Engeo 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 #** FC6E-4091-8342

**PO #** NA

**Project** Yosemite Square

### 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.

Sanborn® Library search results

Certification #: FC6E-4091-8342

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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DRAFT

# APPENDIX E

## ENVIRONMENTAL DATA RESOURCES, INC.

## City Directory

**Yosemite Square**
Austin Road
Manteca, CA 95336

Inquiry Number: 6422879.5
March 30, 2021

# The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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**Executive Summary**

**Findings**

**City Directory Images**

***Thank you for your business.***
Please contact EDR at 1-800-352-0050
with any questions or comments.

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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.

## RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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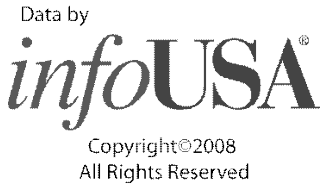


## RESEARCH SUMMARY

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.

| Year | Target Street | Cross Street | Source |
|---|---|---|---|
| 2017 | ☑ | ☐ | EDR Digital Archive |
| 2014 | ☑ | ☐ | EDR Digital Archive |
| 2010 | ☑ | ☐ | EDR Digital Archive |
| 2005 | ☑ | ☐ | EDR Digital Archive |
| 2000 | ☑ | ☐ | EDR Digital Archive |
| 1995 | ☑ | ☐ | EDR Digital Archive |
| 1992 | ☑ | ☐ | EDR Digital Archive |
| 1985 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1981 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1977 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1974 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1971 | ☑ | ☐ | Haines Criss-Cross Directory |
| 1968 | ☐ | ☐ | Polk's City Directory |

# FINDINGS

## TARGET PROPERTY STREET

Austin Road
Manteca, CA 95336

| *Year* | *CD Image* | *Source* | |
|---|---|---|---|
| **AUSTIN RD** | | | |
| 1995 | pg A21 | EDR Digital Archive | |
| **S AUSTIN RD** | | | |
| 2017 | pg A2 | EDR Digital Archive | |
| 2014 | pg A5 | EDR Digital Archive | |
| 2010 | pg A9 | EDR Digital Archive | |
| 2005 | pg A13 | EDR Digital Archive | |
| 2000 | pg A17 | EDR Digital Archive | |
| 1995 | pg A22 | EDR Digital Archive | |
| 1992 | pg A25 | EDR Digital Archive | |
| 1985 | pg A27 | Haines Criss-Cross Directory | |
| 1985 | pg A28 | Haines Criss-Cross Directory | |
| 1981 | pg A29 | Haines Criss-Cross Directory | |
| 1981 | pg A30 | Haines Criss-Cross Directory | |
| 1977 | pg A31 | Haines Criss-Cross Directory | |
| 1977 | pg A32 | Haines Criss-Cross Directory | |
| 1974 | pg A33 | Haines Criss-Cross Directory | |
| 1974 | pg A34 | Haines Criss-Cross Directory | |
| 1971 | pg A35 | Haines Criss-Cross Directory | |
| 1971 | pg A36 | Haines Criss-Cross Directory | |
| 1968 | - | Polk's City Directory | Street not listed in Source |

# FINDINGS

## CROSS STREETS

No Cross Streets Identified

# City Directory Images

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

# S AUSTIN RD 2017

| | |
|---|---|
| 147 | GUZMAN, JESSICA |
| 333 | ACOSTA, DARREN P |
| 457 | HUDSON, HAROLD O |
| 587 | COELHO, MARIA |
| 641 | ZEPEDA, BRITTNEY C |
| 791 | RODRIGUEZ, CESARIO T |
| 813 | WELCH, FRANKLYN G |
| 919 | ESCALANTE, BRYAN |
| 2075 | BETSCHART, JOSEPH W |
| 2090 | FASSLER, JANINE M |
| 2170 | INDELICATO, JASPER A |
| 2245 | VANDYKEN, PAT A |
| 2252 | MCCAW, P |
| 9999 | FORWARD INC WASTE DISPOSAL |
| | REPUBLIC SERVICES |
| 10220 | AREGUIN, MARIA D |
| 11492 | DIAZ, RAUL C |
| 11518 | WEATHERFORD, JOHN R |
| 12891 | AUSTINS LOCK & KEYS |
| 12903 | VALENCIA, SANTIAGO |
| 12907 | RODRIGUEZ, NAYELI |
| 12908 | KIZLIN, J |
| 13133 | GONZALEZ, SAMUEL |
| 13175 | SEPHOS, GEORGE S |
| 13353 | SEPHOS, RICHARD |
| 13742 | INDERBITZIN, JOHN M |
| | JOHN INDERBITZIN RANCH |
| 13833 | MARRELLO, CHRISTINE M |
| 13883 | BUTMAN, ANNASTASI R |
| 13888 | DIAZ, HJALMAR A |
| 14075 | SILVA, JOSEPH P |
| 14133 | THOMSON, FRANK E |
| 14281 | LEWALLEN, JAMES N |
| 14304 | POST, LYNDA L |
| 14464 | JUNQUEIRO, DAVID M |
| 14472 | COLLINS, RICHARD |
| 14480 | HOPPER, MONTY H |
| 14510 | GANN, JASON A |
| 14555 | PERALTA, ALEXSANDRA P |
| 14600 | MANTECA UNIFIED SCHOOL DISTRICT |
| 14729 | FRESHOUR, KELLIE K |
| 14891 | AGOSTINI, JIM F |
| 14972 | MARTZ, GREGORY D |
| 14990 | WALLACE, JOE W |
| 15398 | BORDENAVE, CHRISTI R |
| 15484 | BORDENAVE, ROBERT J |
| 15663 | TREAT, ROBERT W |
| 15681 | QUILICI, MICHAEL V |
| 15697 | HOWELL, TIMOTHY L |
| 15770 | PERALTA, ELIZABETH |

# S AUSTIN RD 2017 (Cont'd)

15918 ANELLO, KEN R
16041 FREITAS, VERONICA
16076 MOULDENHAUER, PAUL L
16230 MARTIN, DUANE F
16321 MCCLEARY, RODNEY P
16359 GROVE, JAMES V
16415 KILGORE, DANIEL
16447 BAYLESS, CHRISTOPHER A
16510 RIELLA, JAMES J
16555 LUCAS, ARTHUR J
16566 REILLY, DENNIS J
16571 PAPWORTH, KATHY
16574 AMERICAN APPLIANCE
CEJA, CARLOS A
16593 MACEDO, ALBINO T
16617 SARINA, WILLIAM P
16640 BARRINGTON, KIRK W
16661 SABERNIAK, KRYSTA L
16720 TOKHEIM, JOEL D
16723 OLEARY, DAVID J
16772 ISBELL, ERIC T
16797 NG, MATTHEW J
16822 KENNEDY, FRED G
16825 MEYER, SYLVIA A
16886 OSBORNE, THOMAS J
17204 SEPHOS, TOM M
17246 SILVA, LAWRENCE D
17268 WILLIAMS, LAMMERT T
17272 SILVA, SANTINO
17338 FIGUEROA, ISMAEL J
17374 STRAIT, DAVID M
17396 GALENA, DAVID L
17400 RICHARD, BUDDY
17422 WESCOTT, DALE K
17444 DOMINGO, STEVEN R
17468 SULLIVAN, MICHAEL W
17530 MARY KAY COSMETICS
MUNGUIA, RAFAEL R
17564 BARR, JEFFERY P
17588 STEPHENS, CRAIG E
17589 BOHLAND, LARRY
17600 BOSS, CHRIS
17637 SINGH, SONNY
STAR MECHANICAL
17644 CASTRO, ABEL B
17663 KIDWELL, ROY W
17685 DELTA CONSTRUCTION
STEWART, RICHARD K
17700 MARTINEZ, PAUL T
17703 RODRIGUEZ, CARLOS

## S AUSTIN RD 2017 (Cont'd)

17725 NASHOLM, DONALD L
17745 KASSNER, RONALD E
17748 BROWN, WAYNE S
17765 MEIER, BRANDON T
17785 BALLARD, RAY E
17790 LAMBERT, JAMES F
17801 MAIER, RONNIE J
MAIERS MANTECA FENCE CO
17821 JEWETT, PRISCILLA A
17830 CURRIER, FRANK A
17849 TONG, TERRENCE S
17862 AGUILAR, CESAR
17865 GUTIERREZ, RUBEN
17934 HENRY, IRR
17975 MARTINEZ, BENANCIO S
18102 GREKMAN OUTDOOR ADVERTISING
MANTECA RV & BOAT STORAGE
18158 CABRAL, CELESTE M
18262 MOERI, RODGER S
18294 CATHEY, IRIS B
18336 REEVES, LINDLEY A
18352 OZBAT, JASON R
18454 VAZQUEZ, RODOLFO A
18498 RADHA, ANU
18556 ROCHA, ANTONE N
18600 MENASCO, KENNETH A
18660 THOMAS, MARADIAN S
18704 FLORIO, FRANK
18742 HEENAN, JACK
18816 CARDOZA, ALBERT V
19066 LAWRENCE, JACQUELINE
19090 ORNER, JACOB
19362 ALVAREZ, GERARDO T
19408 BARAJA, JESUS
19525 AUBERT, MARIE
19900 NEWMAN, STACY A
20405 NUNES, GARY L

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

# S AUSTIN RD 2014

| | |
|---|---|
| 147 | SCHAEFER, EDWARD J |
| 168 | GOMEZ, RACHELLE |
| 189 | HOLCOMB, H S |
| 231 | CABRAL, ART B |
| 333 | LUNA, DANIEL M |
| 457 | HUDSON, HAROLD O |
| 499 | OCCUPANT UNKNOWN, |
| 565 | ARETAKIS, JOHN N |
| 587 | COELHO, MARIA |
| 641 | ZEPEDA, BRITTNEY C |
| 791 | OCCUPANT UNKNOWN, |
| 813 | OCCUPANT UNKNOWN, |
| 815 | WELCH, FRANKLYN G |
| 837 | DEBRUM, STEPHEN F |
| 919 | ARCE, JOSE |
| 931 | PAPADOULIS, GEORGE N |
| 2065 | FASSLER, STEPHANIE A |
| 2075 | BETSCHART, JOSEPH W |
| 2090 | FASSLER, JOSEPH W |
| 2170 | OCCUPANT UNKNOWN, |
| 2245 | VANDYKEN, LLOYD E |
| 2412 | OCCUPANT UNKNOWN, |
| 9621 | OCCUPANT UNKNOWN, |
| 9690 | OCCUPANT UNKNOWN, |
| 10220 | AREGUIN, MARIA D |
| 11492 | OCCUPANT UNKNOWN, |
| 11500 | WILSON, JACQUELINE M |
| 11518 | WEATHERFORD, JOHN R |
| 12891 | ACTION CONCRETE CUTTING & DEMOLITI |
| | OCCUPANT UNKNOWN, |
| 12903 | VALENCIA, MARILYN |
| 12908 | KIZLIN, J |
| 13101 | MARTINEZ, AMADOR |
| 13133 | SOUZA, RICKY J |
| 13175 | SEPHOS, GEORGE S |
| 13353 | OCCUPANT UNKNOWN, |
| 13421 | SEPHOS, IRENE C |
| 13432 | OCCUPANT UNKNOWN, |
| 13440 | INDELICATO, MARY L |
| 13505 | ALTA, NICHOLAS W |
| 13730 | OCCUPANT UNKNOWN, |
| 13742 | INDERBITZIN, JOANNE T |
| | JOHN INDERBITZIN RANCH |
| 13833 | MARRELLO, ALESSANDRO |
| 13883 | BUTMAN, ANNASTASI R |
| 13888 | OCCUPANT UNKNOWN, |
| 14022 | GIKAS, MIKE G |
| 14075 | SILVA, JOSEPH P |
| 14133 | OCCUPANT UNKNOWN, |
| 14281 | LEWALLEN, JENNIFER M |

## S AUSTIN RD 2014 (Cont'd)

14304 POST, LYNDA L
14464 JUNQUEIRO, DAVID M
14472 LOREN, COLLINS
14480 HOPPER, MONTY H
14510 GANN, JASON A
14555 PERALTA, ALEXSANDRA P
14600 MANTECA UNIFIED SCHOOL DISTRICT
14729 JONES, JUSTIN B
14855 AGOSTINI, JIM F
14891 OCCUPANT UNKNOWN,
14972 MARTZ, MINERVA V
14990 WALLACE, JOE W
15398 BORDENAVE, JOHN P
15481 WINTERS, DUANE
15484 BORDENAVE, ROBERT J
15505 LOPES, JIM J
15663 TREAT, ROBERT W
15681 QUILICI, MICHAEL V
15697 HOWELL, TIMOTHY L
15770 OCCUPANT UNKNOWN,
15918 ANELLO, KEN R
15940 ANELLO, IRENE M
16041 FREITAS, ALLEN R
16076 SELF, L
16225 OCCUPANT UNKNOWN,
16230 MARTIN, DUANE F
16321 MCCLEARY, RODNEY P
16359 GROVE, JAMES V
16415 KILGORE, DANIEL
16447 BAYLESS, CHRISTOPHER A
16510 RIELLA, JAMES J
16555 LUCAS, ARTHUR J
16566 ROTH, SIERRA L
16570 RIELLA, LIZ
16571 OCCUPANT UNKNOWN,
16574 OCCUPANT UNKNOWN,
16593 MACEDO, ALBINO T
16617 SARINA, WILLIAM P
16640 BARRINGTON, KIRK
16661 OCCUPANT UNKNOWN,
16720 TOKHEIM, JOEL D
16723 OLEARY, DAVID J
16772 ISBELL, ERIC T
16797 NG, MATTHEW J
16822 KENNEDY, TIMOTHY R
16825 MEYER, KT T
16886 OSBORNE, THOMAS J
17204 SEPHOS, THOMAS M
17246 OCCUPANT UNKNOWN,
17250 OCCUPANT UNKNOWN,

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## S AUSTIN RD 2014 (Cont'd)

17268 WILLIAMS, LAMMERT T
17272 SILVA, CHARISE D
17300 VILLALVAZO, ANNA
17338 FIGUEROA, ISMAEL O
17374 STRAIT, BRYAN D
17396 GALENA, DAVID L
17400 OCCUPANT UNKNOWN,
17422 CASTELLANOS, ALFREDO
17444 DOMINGO, RANDY
17468 SULLIVAN, MICHAEL W
17500 WILSON, TIMOTHY E
17530 MUNGUIA, RAFAEL R
17564 BARR, JEFFREY P
17588 CASH, JOLIN
17589 BOHLAND, LARRY
17600 BOSS, CHRIS
17637 SINGH, HARSHARAN
17644 MAY, JASON R
17685 STEWART, RICHARD K
17700 MARTINEZ, PAUL T
17703 RODRIGUEZ, CARLOS
17725 NASHOLM, DONALD L
17745 KASSNER, RONALD E
17748 BROWN, WAYNE S
17765 MEIER, BRANDON T
17785 BALLARD, RAYMOND C
17790 LAMBERT, JAMES F
17801 JEWETT, IMA W
MAIERS MANTECA FENCE CO
17821 JEWETT, PRISCILLA A
17830 CURRIER, FRANK A
17849 RAU, TOMMY J
17853 OCCUPANT UNKNOWN,
17862 SWAILS, TIMOTHY S
17865 GUTIERREZ, RUBEN
17934 HENRY, IRR
17975 MARTINEZ, VENANCIO S
18101 OCCUPANT UNKNOWN,
18102 GREKMAN OUTDOOR ADVERTISING
MANTECA RV & BOAT STORAGE
OCCUPANT UNKNOWN,
18218 HERNANDEZ, GEORGE L
18262 MOERI, RODGER S
18266 HERCULES, VOURAKIS
18294 CATHEY, IRIS B
18336 REEVES, LINDLEY A
18352 OZBAT, JASON R
18445 OCCUPANT UNKNOWN,
18454 VAZQUEZ, RODOLFO A
18498 OCCUPANT UNKNOWN,

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## S AUSTIN RD 2014 (Cont'd)

| | |
|---|---|
| 18556 | ROCHA, ANTONE N |
| 18600 | MENASCO, KENNETH A |
| 18640 | OCCUPANT UNKNOWN, |
| 18660 | BUCKALEW, MELVIN D |
| 18672 | CAMPBELL, BRIAN |
| 18704 | FLORIO, FRANK |
| 18816 | CARDOZA, ALBERT V |
| 19055 | OCCUPANT UNKNOWN, |
| 19066 | GIORDANO, MARGARET G |
| 19090 | ORNER, JACOB |
| 19362 | ALVAREZ, GERARDO |
| 19511 | OCCUPANT UNKNOWN, |
| 19525 | OCCUPANT UNKNOWN, |
| 19551 | OCCUPANT UNKNOWN, |
| 20405 | NUNES, BOB W |
| 21530 | ANAYA, IMELDA |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | EDR Digital Archive |

## S AUSTIN RD 2010

| | |
|---|---|
| 130 | CALLA HIGH SCHOOL |
| 147 | SCHAEFER, EDWARD J |
| 178 | MANTECA CAPS |
| 189 | HOLCOMB, H S |
| 231 | CABRAL, ART B |
| 333 | CABRAL, AUGUSTA M |
| 405 | BETTENCOURT, EDWARD A |
| 457 | HODSON, KELLY |
| 499 | OCCUPANT UNKNOWN, |
| 565 | ARETAKIS, JOHN N |
| 587 | COELHO, MARIA |
| 641 | ZEPEDA, MINDY |
| 791 | RODRIGUEZ, CESARIO |
| 813 | HATTERSLEY, ANNA |
| 815 | WELCH, ROCHELLE |
| 837 | DEBRUM, STEPHEN F |
| 919 | TWIDWELL, JEFF S |
| 9621 | OCCUPANT UNKNOWN, |
| 9690 | OCCUPANT UNKNOWN, |
| 9999 | FORWARD INCWASTE DISPOSAL |
| 10220 | MARTINEZ, EFRAIN |
| 11492 | AH, YO T |
| 11500 | KREIN, GERALD K |
| 11518 | CODDE, GARY |
| | HOSFORD, ELIZABETH |
| | OCCUPANT UNKNOWN, |
| | WEATHERFORD, JOHN |
| 12891 | ACTION CONCRETE CUTTING |
| | BLANKENSHIP, ISAAC K |
| 12908 | KIZLIN, J |
| 13101 | MARTINEZ, AMADOR |
| 13133 | SOUZA, RICKY J |
| 13175 | SEPHOS, GEORGE S |
| 13353 | OCCUPANT UNKNOWN, |
| 13421 | OCCUPANT UNKNOWN, |
| 13432 | OCCUPANT UNKNOWN, |
| 13440 | SALVETTI, ISABEL |
| 13505 | WAY, NORMAN R |
| 13730 | OCCUPANT UNKNOWN, |
| 13742 | INDERBITZIN, JOHN M |
| 13833 | MARRELLO, ALESSANDRO |
| 13872 | BRUNS, JOHN H |
| 13883 | BUTMAN, HAROLD W |
| 13888 | BAKER, MARY |
| 14022 | GIKAS, MIKE G |
| 14075 | SILVA, JOSEPH P |
| 14281 | PADILLA, RAMIRO |
| 14304 | POST, PETER H |
| 14464 | OCCUPANT UNKNOWN, |
| 14472 | CORBETT, MARILYN G |

## S AUSTIN RD 2010 (Cont'd)

14510 LANGDON, SUSAN M
14555 KAMPS, WILLIAM
14600 NEW HAVEN ELEMENTARY SCHOOL
14729 OCCUPANT UNKNOWN,
14855 AGOSTINI, JIM F
14891 OCCUPANT UNKNOWN,
14960 LIN, ANDREW E
14972 MARTZ, MINERVA V
14990 WALLACE, JOE W
15398 BORDENAVE, JOHN P
15481 VOSSOS, JIM J
15484 OCCUPANT UNKNOWN,
15505 LOPES, JIM J
15663 TREAT, ROBERT W
15681 QUILICI, MICHAEL V
15697 HOWELL, TIMOTHY L
15918 MEEKEN, TRISH
15940 ANELLO, KENNETH R
16041 FREITAS, ROBERT F
16076 MOULDENHAUER, PAUL L
16225 MUNOZ, EDWARD P
16230 MARTIN, FORREST I
16321 MCCLEARY, RODNEY P
16359 MILES, BILLY R
RAM GEOTECHNICAL DRILLING
16373 LEAL, MARIAN A
16415 OCCUPANT UNKNOWN,
16447 BAYLESS, JIMMY A
16510 RIELLA, JAMES J
16555 LUCAS, ARTHUR J
16571 VIERRA, EDWARD J
16574 OCCUPANT UNKNOWN,
16593 MACEDO, ALBINO A
16617 SARINA, WILLIAM P
16640 OCCUPANT UNKNOWN,
16661 OCCUPANT UNKNOWN,
16720 TOKHEIM, JOEL D
16723 OLEARY, DAVID J
16772 ISBELL ERIC
ISBELL, ERIC T
16797 NG, MATTHEW J
16822 KENNEDY, FRED G
16825 OCCUPANT UNKNOWN,
16886 OSBORNE, THOMAS J
17204 SEPHOS, THOMAS
17246 SILVA, LAWRENCE H
SILVAS STEEL STRUCTURES
17250 OCCUPANT UNKNOWN,
17268 WILLIAMS, LAMMERT T
17272 SILVA, SANTINO

## S AUSTIN RD 2010 (Cont'd)

17300 VILLALVAZO, SOTERO B
17338 FIGUEROA, ISMAEL J
17374 STRAIT, DAVID M
17396 GALENA, DAVID L
17400 OCCUPANT UNKNOWN,
17422 OCCUPANT UNKNOWN,
17444 GOMES, NANCY A
17468 SULLIVAN, MICHAEL W
17500 WILSON, TIMOTHY E
17530 MARY KAY COSMETICS
17564 BARR, JEFFERY P
17588 CASH, JOHN
17589 BOHLAND, LARRY
17600 BOSS, CHRISTIAN J
17617 TELLEZ, ALBERTO
17637 TELLEZ, JOSE
17644 MAY, ROBERT B
17685 STEWART, RICHARD K
17700 MARTINEZ, PAUL T
17703 CROSLIN, CHARLES M
17725 NASHOLM, DONALD L
17745 KASSNER, RONALD E
17748 BROWN, WAYNE S
17765 REYES, JOSE N
17785 BALLARD, RAYMOND C
17790 OCCUPANT UNKNOWN,
17801 MAIER, RONNIE G
MAIERS MANTECA FENCE CO
17821 JEWETT, PRISCILLA A
17830 CURRIER, FRANK A
17849 OCCUPANT UNKNOWN,
17853 ARO, KRISTEN
17862 SWAILS, TIMOTHY S
17865 BRAZIL, JOHN L
17934 HENRY, IRR
17975 MARTINEZ, VENANICO S
18101 OCCUPANT UNKNOWN,
18102 GREKMAN OUTDOOR ADVERTISING
MANTECA RV & BOAT STORAGE
OCCUPANT UNKNOWN,
18218 HERNANDEZ, GEORGE L
18262 MOERI, RODGER S
18266 OCCUPANT UNKNOWN,
18294 CATHEY, JOE M
18336 REEVES LIN
REEVES, LINDLEY A
18352 ROSENBLUM, JESSICA
18454 VAZQUEZ, RODOLFO A
18498 OCCUPANT UNKNOWN,
18556 ROCHA, TONY N

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|---|---|---|
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## S AUSTIN RD 2010 (Cont'd)

| | |
|---|---|
| 18600 | MENASCO, KENNETH A |
| 18640 | ASIVIDO, FRANK E |
| 18660 | ROMERO, BERTHA E |
| 18704 | FLORIO, FRANK |
| 18816 | CARDOZA, ALBERT V |
| 19066 | OCCUPANT UNKNOWN, |
| 19090 | ORNER, MARK C |
| 19362 | ALVAREZ, MARIA T |
| 19408 | OCCUPANT UNKNOWN, |
| 19517 | OCCUPANT UNKNOWN, |
| 19525 | JOHNNSON, ELIZABETH |
| 19551 | OCCUPANT UNKNOWN, |
| 19900 | EUSEBIO, WALTER R |
| 20405 | OCCUPANT UNKNOWN, |
| 20665 | FASSLER, WILLIAM W |
| 20666 | FASSLER, JOSEPH W |
| 20700 | INDELICATO, JAY A |
| 20921 | VANDYKEN, LLOYD E |
| 21128 | OCCUPANT UNKNOWN, |
| 21530 | ANAYA, IMELDA |

| Target Street | Cross Street | Source |
|---|---|---|
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## S AUSTIN RD 2005

147 RAMIREZ, ROBERT S
189 HOLCOMB, H S
231 CABRAL, ART B
333 CABRAL, AUGUSTA M
405 BETTENCOURT, EDWARD A
457 HODSON, KELLY
499 MACHADO, DAN D
565 ARETAKIS, JOHN N
587 COELHO, MARIA
641 ZEPEDA, FRED L
791 RODRIGUEZ, CESARIO
813 PROCTOR, ARIELE
815 WELCH, ROCHELLE
837 DEBRUM, STEPHEN F
PROFESSIONAL DUSTERS
919 TWIDWELL, JEFF S
9621 OCCUPANT UNKNOWN,
9690 OCCUPANT UNKNOWN,
9999 ALLIED WASTE
10220 AREGUIN, MARIA D
11500 KREIN, GERALD K
11518 OCCUPANT UNKNOWN,
WEATHERFORD, KIMBERELY L
12891 BLANKENSHIP, ISAAC K
12908 FINEO, RENO C
13133 SOUZA, RICK J
13175 SEPHOS G FARMS
SEPHOS, GEORGE S
13421 SEPHOS, IRENE S
13432 OCCUPANT UNKNOWN,
13440 SALVETTI, ISABEL
13505 WAY, NORMAN R
13707 JOHNSON, TRAVIS
13730 INDERBITZIN, JOHN M
13742 OCCUPANT UNKNOWN,
13833 MARRELLO, ALESSANDRO
13872 BRUNS, JOHN H
13883 BUTMAN, HAROLD W
13888 ADDRESSING DYSLEXIA
BURLEIGH, DAVID W
14022 CARRILLO, JOSE
GIKAS FARMS
14075 SILVA, JOSEPH P
14133 TILLMAN, DALE W
14281 OCCUPANT UNKNOWN,
14304 POST, PETER
14464 OCCUPANT UNKNOWN,
14472 OCCUPANT UNKNOWN,
14480 OCCUPANT UNKNOWN,
14510 MANN, AMRIK S

## S AUSTIN RD 2005 (Cont'd)

14600 NEW HAVEN SCHOOL
14729 OCCUPANT UNKNOWN,
14855 AGOSTINI, JAMES F
14891 AGOSTINI, MAURICE R
14960 LIN, ANDREW E
14972 MARTZ, BRUCE E
14990 WALLACE, JOE W
15398 HOLMGREN, ROBERT W
15481 VOSSOS, JIM J
15484 OCCUPANT UNKNOWN,
SIERRA CASCADE NURSERY INC
15505 LOPES, JIM J
15663 TREAT, ROBERT W
15681 QUILICI, KATHY A
15697 WHITESIDE, WILLIAM R
15770 DINSDALE, TERRY A
15918 ANELLO, KEN R
15940 ANELLO, KENNETH R
16041 FREITAS, ROBERT F
16076 MOULDENHAUER, PAUL L
16225 MUNOZ, EDWARD P
16230 MARTIN, DUANE
16321 MCCLEARY, RODNEY P
16359 MILES, BILLY R
RAM DRILLING
16373 LEAL, MARIAN A
16415 OCCUPANT UNKNOWN,
16447 BAYLESS, JIMMY A
16510 RIELLA, JIM J
16555 LUCAS, ARTHUR J
16571 VIERRA, EDWARD J
16590 OCCUPANT UNKNOWN,
16593 MACEDO, ALBINO A
16617 SARINA, WILLIAM
16640 BARRINGTON, KIRK W
16661 SABERNIAK, GENE R
16720 TOKHEIM, JOEL D
16723 OLEARY, DAVID J
16772 ISBELL, ERIC T
16797 LAURENS BEACON SERVICE
RAUCHMAN, LAUREN L
16822 KENNEDY, FRED G
16825 MEYER, SYLVIA A
16886 OSBORNE, THOMAS J
17204 SEPHOS, STEVE A
17246 OCCUPANT UNKNOWN,
SILVAS STEEL STRUCTURES
17250 OCCUPANT UNKNOWN,
17268 WILLIAMS, LAMMERT W
17272 GENTRY, JEFFREY J

## S AUSTIN RD 2005 (Cont'd)

17272 SILVAS STEEL STRUCTURES INC
17300 GUERIN, SALLY A
17338 FIGUEROA, ISMAEL J
17374 STRAIT, DAVID M
17396 GALENA, DAVID L
17400 OCCUPANT UNKNOWN,
17422 NEWTON, DAVID A
17444 DOMINGO, RUDY
17468 JUMP N PLAY
SULLIVAN, FRED L
17489 TONG, TERRENCE S
17500 SANDS CYCLE STOP
SANTO, JANICE I
17530 MUNGUIA, RAFAEL B
17564 BARR, JEFFREY P
17589 VALTERZA, FIORI A
17600 BOSS, CHRISTIAN J
17617 TELLEZ, ALBERTO
17637 TELLEZ, GUZMAN P
17644 OCCUPANT UNKNOWN,
17650 QUIPP, DAVID
17685 K & D STEWART INC
OCCUPANT UNKNOWN,
17700 CRAWFORD, ROGER C
17703 CROSLIN, CHARLES M
RIDEZ
17725 NASHOLM, DONALD J
17745 KASSNER, RONALD E
17748 BROWN, WAYNE S
17765 OCCUPANT UNKNOWN,
17785 BALLARD, RAYMOND C
17790 DERRICK, DON
17801 MAIER, KATHY J
MAIERS MANTECA FENCE CO
17821 OCCUPANT UNKNOWN,
17830 CURRIER, FRANK A
17849 TONG, TERRY
17853 AYALA, JOAQUIN
17862 ALAMEDA, GEORGE
17865 BRAZIL, JANICE L
17934 HENRY, CYNTHIA A
17975 OCCUPANT UNKNOWN,
18102 GREKAMN OUTDOOR ADVERTISING
MANTECA RV & BOAT STORAGE
OCCUPANT UNKNOWN,
18218 HERNANDEZ, GEORGE L
18262 MOERI, RODGER S
18266 OCCUPANT UNKNOWN,
18294 CATHEY, JOE M
18336 REEVES & AKSLAND INC

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## S AUSTIN RD 2005 (Cont'd)

18336 REEVES, LINDLEY A
18352 EVANS, ROGER A
18454 VAZQUEZ, RODOLFO A
18485 OCCUPANT UNKNOWN,
18498 CURIEL, CARLOS
18556 FRANK, E
18640 MENASCO, KENNETH A
18660 ROMERO, CLARENCE L
18704 FLORIO, FRANK
18816 CARDOZA, ALBERT V
18877 OCCUPANT UNKNOWN,
19066 POTTER, WILLIAM W
19090 ORNER, MARK C
19362 OCCUPANT UNKNOWN,
19408 OCCUPANT UNKNOWN,
19511 SCHINGLER, GEORGE A
19517 OCCUPANT UNKNOWN,
19525 BLASINGAME, CLAUDETTE
19551 AROYO, MARIA
19900 EUSEBIO, ROSE
20081 VANTILL, JAMES C
20665 FASSLER, WILLIAM W
20666 FASSLER, JOSEPH W
20675 OCCUPANT UNKNOWN,
20914 CABRAL, ADALINE M
20921 VANDYKEN, LLOYD
21128 HAT, T R
21530 ANAYA, IMELDA

| Target Street | Cross Street | Source |
|---|---|---|
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## S AUSTIN RD 2000

457 HODSON, HAROLD O
581 MATHIS, ARTHUR J
587 COELHO, JOSE
837 DIAS, BRENDA G
919 TWIDWELL, MELISA L
9621 OCCUPANT UNKNOWN,
9690 VILLARREAL, JOSE M
9990 OCCUPANT UNKNOWN,
10220 CUNA, A
11492 BOURGUIGNON, MATTHEW J
11500 OCCUPANT UNKNOWN,
11518 OCCUPANT UNKNOWN,
12891 OCCUPANT UNKNOWN,
12908 KELL, THOMAS B
13101 ROWLAND, DENNIS
13133 NASCIMENTO, RICHARD L
13175 OCCUPANT UNKNOWN,
13421 SEPHOS, IRENE G
13432 OCCUPANT UNKNOWN,
13440 SALVETTI, DARIO
13505 WAY, NORMAN R
13730 INDERBITZIN, JOHN
13833 MARRELLO, A
13883 OCCUPANT UNKNOWN,
14022 GIKAS, MIKE G
14075 SILVA, JOSEPH
14133 TILLMAN, DALE
14281 BAXTER, BRUCE D
SIERRA LANDSCAPE COMPANY
14472 RACACHO, C I
WESTERN EQUIPMENT CLEANING COMPANY
14480 FITTANTE, DAVID
14510 PETERSON, DAN
14600 MANTECA UNIFIED SCHOOL DISTRICT NEW HAVEN SCHOOL
NEW HAVEN SCHOOL
14855 AGOSTINI, JIM
14891 AGOSTINI, MAURICE
14960 RAINEY, MARGIE E
14972 MARTZ, BRUCE
14990 WALLACE, JOE W
15481 VOSSOS, JIM
15505 LOPES, JIM
15663 OCCUPANT UNKNOWN,
15681 QUILICI, MICHAEL
15697 OCCUPANT UNKNOWN,
15770 RENFRO, BRENDA
15861 OCCUPANT UNKNOWN,
15872 PRUETT, MICAH E
15918 CAMPBELL, DAVID M
15940 ANELLO, VINCENT

## S AUSTIN RD 2000 (Cont'd)

16041 FREITAS, ROBERT F
16076 OCCUPANT UNKNOWN,
16225 MUNOZ, EDWARD P
16230 OCCUPANT UNKNOWN,
16321 MCCLEARY, RODNEY P
16359 OCCUPANT UNKNOWN,
16415 OCCUPANT UNKNOWN,
16447 BAYLESS, JIMMY
16510 PECK, NICOLE E
16555 LUCAS, ARTHUR J
LUCAS, LORETTA L
ROWELL, WALTER A
16566 OCCUPANT UNKNOWN,
16571 VIERRA, EDWARD
16574 OCCUPANT UNKNOWN,
16590 OCCUPANT UNKNOWN,
16593 MACEDO, ALBINO
16617 SARINA, WILLIAM
16640 OCCUPANT UNKNOWN,
16661 SABERNIAK, GENE R
16720 TOKHEIM, JOEL D
16723 DAVID, J O
16772 OCCUPANT UNKNOWN,
16797 RAUCHMAN, LAUREN
16822 KENNEDY, FRED
16886 OSBORNE, THOMAS J
17204 SEPHOS, STEVE
17246 SILVA, L H
17250 SILVA, M
17258 OCCUPANT UNKNOWN,
17268 LESNINI, ANNIE M
17300 OCCUPANT UNKNOWN,
17336 OCCUPANT UNKNOWN,
17338 FIGUEROA, ISMAEL
17374 STRAIT, DAVID M
17396 GALENA, DAVID
17400 PEREZ, M
17422 NEWTON, FRANK
17444 DOMINGO, R
17468 TOWNE, DOLORES M
17637 WHITLOW, LYNDA
17644 OCCUPANT UNKNOWN,
17650 GROVE, FLOYD W
17663 HIGHTOWER, ERLENE F
17700 CRAWFORD, ROGER C
17703 CROSLIN, CHARLES
17725 OCCUPANT UNKNOWN,
17745 KASSNER, RONALD
17748 DURHAM, RICHARD
17765 OCCUPANT UNKNOWN,

## S AUSTIN RD 2000 (Cont'd)

17785 BALLARD, RAYMOND C
17790 OCCUPANT UNKNOWN,
17801 MAIER, RONNIE
MAIERS MANTECA FENCE COMPANY
17821 OCCUPANT UNKNOWN,
17830 REEVES, LOREN W
17849 ELISARY, DIANNA D
17853 OCCUPANT UNKNOWN,
17862 ALAMEDA, GEORGE
17865 TREVINO, KATHY
17934 HENRY, CYNTHIA A
17975 MARTINEZ, V S
18101 OCCUPANT UNKNOWN,
18102 MANTECA GOLF CENTER & DRIVING RANGE
18158 CABRAL, ART
18218 EISENGA, GARY L
18266 STAVROULAKIS, NICK G
18294 CATHEY, JOE M
18336 REEVES, LINDLEY A
18352 OCCUPANT UNKNOWN,
18356 OCCUPANT UNKNOWN,
18397 BETTENCOURT, EDWARD A
18400 BONFIGLIO, B
18445 HODSON, HAROLD
18454 BONFIGLIO, AUGUST
18485 OCCUPANT UNKNOWN,
18498 HOSTERMAN, DEAN R
18501 HERRMANN, JUSTIN K
18536 OCCUPANT UNKNOWN,
18542 OCCUPANT UNKNOWN,
18556 OCCUPANT UNKNOWN,
18561 ARETAKIS, JOHN
18615 COELHO, JOSE T
18640 ASIVIDO, FRANK
18659 ZEPEDA, FRED
18660 ROMERO, C L
18704 MEINTASIS JOHN N GENL CONTRACTOR
OCCUPANT UNKNOWN,
18816 CARDOZA, ALBERT
18877 OCCUPANT UNKNOWN,
18901 OCCUPANT UNKNOWN,
18903 VANRYN, BERT J
18923 DEBRUM, STEPHEN F
19043 OCCUPANT UNKNOWN,
19054 OCCUPANT UNKNOWN,
19055 PAPADOULIS, SOPHIA G
19066 KILBOURN, HELEN E
19090 OCCUPANT UNKNOWN,
19362 ALVAREZ, T
19408 OCCUPANT UNKNOWN,

## S AUSTIN RD 2000 (Cont'd)

19511 SCHINGLER, GEORGE
19517 OCCUPANT UNKNOWN,
19525 OCCUPANT UNKNOWN,
19900 EUSEBIO, ROSE
20666 FASSLER, JOSEPH W
20675 BETSCHART, WALTER
20914 CABRAL, EMIL
20921 VANDYKEN, LLOYD
21128 BELLA NAPOLI WINERY
HAT, T R

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## AUSTIN RD 1995

15481 VOSSOS, JIM
15484 OCCUPANT UNKNOWNN
15505 LOPES, JIM
15663 TREAT, ROBERT W
15681 QUILICI, MICHAEL
19900 EUSEBIO, ERNEST
20081 VANTILL, JAMES C
20405 NUNES, WILLIAM S

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# S AUSTIN RD 1995

| | |
|---|---|
| 9621 | BLANCO, V |
| 9999 | FORWARD INC |
| 12891 | BLANKENSHIP, KEET |
| 13440 | SALVETTI, DARIO |
| 13730 | INDERBITZIN, JOHN |
| 13833 | OCCUPANT UNKNOWNN |
| 13883 | WRIGHT, LENA |
| 14022 | OCCUPANT UNKNOWNN |
| 14075 | SILVA, JOSEPH |
| 14281 | SIERRA LANDSCAPE CO |
| 14464 | OCCUPANT UNKNOWNN |
| 14472 | OCCUPANT UNKNOWNN |
| | WESTERN EQUIP CLEANING CO |
| 14480 | OCCUPANT UNKNOWNN |
| 14510 | PETERSON, DAN |
| 14555 | BARACOSA, PAULA |
| 14600 | NEW HAVEN ELEMENTARY SCHOOL |
| 14855 | AGOSTINI, JIM |
| 14891 | OCCUPANT UNKNOWNN |
| 14960 | OCCUPANT UNKNOWNN |
| 14972 | MARTZ, BRUCE |
| 15770 | OCCUPANT UNKNOWNN |
| 15918 | OBANNON, TRACEY G |
| 16041 | FREITAS, ROBERT F |
| 16225 | MUNOZ, EDWARD P |
| 16321 | MCCLEARY, RODNEY P |
| 16359 | MILES, BILLY |
| 16373 | OCCUPANT UNKNOWNN |
| 16415 | COLE, HENRY K |
| 16447 | BAYLESS, JIMMY |
| 16555 | LUCAS, ARTHUR J JR |
| 16566 | OCCUPANT UNKNOWNN |
| 16571 | VIERRA, EDWARD |
| 16574 | OCCUPANT UNKNOWNN |
| 16590 | OCCUPANT UNKNOWNN |
| 16593 | MACEDO, ALBINO |
| 16640 | JOHNSON, MILDRED |
| 16720 | TOKHEIM, JOEL |
| 16772 | ISBELL, ERIC |
| 16797 | RAUCHMAN, LAUREN |
| 16822 | KENNEDY, FRED |
| | QUEALEY, SCOTT |
| 16825 | MEYER, KARIN |
| 17029 | OCCUPANT UNKNOWNN |
| 17053 | BAGNASCO, CARLO M |
| 17185 | OCCUPANT UNKNOWNN |
| 17204 | SEPHOS, STEVE |
| 17246 | SILVA, CHARISE D |
| 17250 | SILVA, TONY |
| 17258 | OCCUPANT UNKNOWNN |

## S AUSTIN RD 1995 (Cont'd)

17268 OCCUPANT UNKNOWNN
17272 OCCUPANT UNKNOWNN
17300 GUILLORY, S
17338 OCCUPANT UNKNOWNN
17374 STRAIT, DAVID M
17379 MICHELETOS, JOHN
17396 OCCUPANT UNKNOWNN
17422 NEWTON, FRANK
17500 OCCUPANT UNKNOWNN
17511 VALENZUELA, MARIANO
17567 OCCUPANT UNKNOWNN
17571 OCCUPANT UNKNOWNN
17589 VALTERZA, FIORI
17637 LARA, JIM
17644 BERTRAM, GARY
17685 STEWART, RICHARD K
17700 OCCUPANT UNKNOWNN
17703 CROSLIN, CHARLES
17725 NASHOLM, DONALD
17748 DURHAM, RICHARD
17765 JOHNSON, LARRY C
17785 BALLARD, RAYMOND C
17801 MAIERS MANTECA FENCE CO
17849 TARGA PAPER CO
17862 OCCUPANT UNKNOWNN
18088 SAN JOAQUIN COUNTY EDUCATION
18101 HOLCOMB, H S
18102 OCCUPANT UNKNOWNN
PAULS GOLF DRIVING RANGE
18158 ART CABRAL REALTY
CABRAL, ART
18266 VOURAKIS, H
18294 CATHEY, JOE M
18397 BETTENCOURT, EDWARD A
18400 BONFIGLIO, B
18445 HODSON, HAROLD
18498 OCCUPANT UNKNOWNN
18536 HARKINS, S
18556 NUNES, FRANK E
18561 ARETAKIS, JOHN
BORCHARDT, TRAVIS
18615 COELHO, JOSE T
18640 MENASCO, KEN
18659 ZEPEDA, FRED
18660 ROMERO, C L
18704 JOHN N MEINTASIS CONTRACTOR
18816 CARDOZA, ALBERT
18877 HERNANDEZ, HILARIO
18901 OCCUPANT UNKNOWNN
18903 OCCUPANT UNKNOWNN

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## S AUSTIN RD 1995 (Cont'd)

18923 DEBRUM, STEPHEN F
19066 POTTER, WILLIAM
19090 OCCUPANT UNKNOWNN
19362 ALVAREZ, T
19511 SCHINGLER, GEORGE JR
19525 FOX, APRIL
20666 FASSLER, JOSEPH W
20675 BETSCHART, WALTER
20914 CABRAL, EMIL
20921 VANDYKEN, LLOYD
21128 BELLA NAPOLI WINERY

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## S AUSTIN RD 1992

12891 HELLO CONCRETE
13133 NASCIMENTO CONSTR
13440 SALVETTI, DARIO
13730 INDERBITZIN, JOHN
13833 MARRELLO, LEE
13883 WRIGHT, LENA
14022 GIKAS, MIKE G
14075 SILVA, JOSEPH
14281 SIERRA LANDSCAPE CO
14304 GOLIEN, W G
14464 RICHTER, GABRIEL M
14472 WESTMORELAND, JAMES W
WESTRN EQUIP CLNG
14600 NEW HAVEN ELEMENT
SC NEW HAVEN SC
14855 AGOSTINI, JIM
14972 MARTZ, BRUCE
15481 VOSSOS, JIM
15484 LEONARD, CHRIS
15505 LOPES, JIM
16041 FREITAS, ROBERT F
16076 WILSON, JANA
16225 MUNOZ, EDWARD P
16321 MCCLEARY, RODNEY P
16359 MILES, BILLY R
16373 LEAL, FRANK
16415 COLE, HENRY K
16447 BAYLESS, JIMMY
16510 TURPIN, MARILYN
16555 LUCAS, ARTHUR J JR
16571 VIERRA, EDWARD
16593 MACEDO, ALBINO
16640 JOHNSON, MILDRED
16772 ISBELL, ERIC T
16822 KENNEDY, FRED
16825 MEYER, KARIN
16886 OSBORNE, THOMAS J
17029 WINTERS, DAVID L
17053 BAGNASCO, CARLO M
17185 MICHELETOS, BILL
17250 SILVA, TONY
17300 GUILLORY, S
17374 STRAIT, DAVID M
17379 MICHELETOS, JOHN
17396 GALENA, DAVID
17422 NEWTON, FRANK
17511 VALENZUELA CONSTR
VALENZUELA, MARIANO
17589 VALTERZA, FIORI
17637 LARA, JIM

## S AUSTIN RD 1992 (Cont'd)

17644 BERTRAM, GARY
17703 CROSLIN, CHARLES
17725 NASHOLM, DONALD
17748 DURHAM, RICHARD
17765 POGUE, JOHN O
17785 BALLARD, RAYMOND C
17801 MAIERS MTCA FENCE
18101 HOLCOMB, H S
18102 PAULS GOLF RANGE
18158 CABRAL ART REALTY
18266 VOURAKIS, TONY
18294 CATHEY, JOE M
18336 NILSSON, BLAIR
18352 OBRIEN, LEONARD
18397 BETTENCOURT, EDWARD A
18400 BONFIGLIO, B
18445 HODSON, HAROLD
18556 NUNES, FRANK E
18561 ARETAKIS, JOHN
ERENDS, ERNIE
18615 COELHO, JOSE T
18659 ZEPEDA, FRED
18660 ROMERO, C L
18704 MEINTASIS J N CONTR
18816 CARDOZA, ALBERT
18901 VANRYN, BERT J
18923 DEBRUM, STEPHEN F
19066 POTTER, WILLIAM
19362 ALVAREZ, T
19511 SCHINGLER, GEORGE JR
19900 EUSEBIO, ERNEST
20081 VANTILL, JAMES C
20666 FASSLER, JOSEPH W
20675 BETSCHART, WALTER
20914 CABRAL, EMIL
21128 BELLA NAPOLI WINERY

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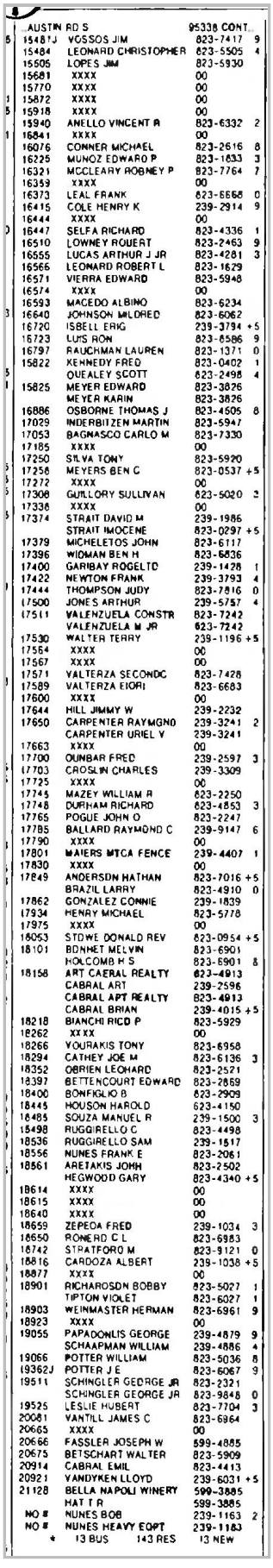
**S AUSTIN RD 1985**

# AUSTIN RD S 95336
# MANTECA

| | | | |
|---|---|---|---|
| 9690 | GALEAZZI M | 982-5478 | +5 |
| 11324 | PATTON FRANK L | 982-5189 | +5 |
| 13421 | SEPHOS STEVE | 982-4733 | 7 |
| | SEPHOS STEVE | 823-4043 | 7 |
| 13440J | SALVETTI D | 823-3996 | 9 |
| 13505 | BROWN RONALD | 982-5733 | 0 |
| 13730 | INDERBITZIN JOHN | 823-3016 | 6 |
| 13833 | MARRELLO LEE | 982-0754 | |
| 13883 | WRIGHT LENA | 239-3642 | 8 |
| 13888 | KANTACK BEATRICE | 823-6072 | 7 |
| 14022 | GIKAS MIKE G | 982-0920 | 0 |
| | GIKAS MIKE G | 823-4928 | 9 |
| 14075 | SILVA JOSEPH | 823-7539 | 1 |
| 14133 | TILLMAN DALE W | 823-4059 | 0 |
| 14281 | XXXX | 00 | |
| 14304 | GOLIEN W G | 823-6722 | |
| 14464 | RICHTER G M | 823-5671 | |
| 14472 | WESTERN EQUIP CLNNG | 823-2220 | 8 |
| | WESTMORELAND JAMES | 823-2364 | 8 |
| 14480 | XXXX | 00 | |
| 14555 | VANDERVEEN CLIFF | 239-9870 | 4 |
| 14600 | MANTECA SC NEW HAVN | 239-1357 | +5 |
| | NEW HAVEN ELEM SCHL | 239-1357 | |
| | NEW HAVEN ELEMENT | 982-5369 | 0 |
| | SC MANTECA NEW HAVN | 239-1357 | 1 |
| | SC TITLE I NW HAVEN | 239-8515 | 4 |
| 14729 | WRIGHT JAMES H | 239-1104 | 6 |
| 14891 | ADOSTINI M | 823-5889 | |
| 14960 | XXXX | 00 | |
| 14972 | MARTZ BRUCE | 823-5895 | |
| 14990 | WALLACE JOE W | 239-9216 | 6 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# S AUSTIN RD 1985



| | AUSTIN RD S | 95338 CONT | |
|---|---|---|---|
| 15481J | VOSSOS JIM | 823-7417 | 9 |
| 15484 | LEONARD CHRISTOPHER | 823-5505 | 4 |
| 15505 | LOPES JIM | 823-5930 | |
| 15681 | XXXX | 00 | |
| 15770 | XXXX | 00 | |
| 15872 | XXXX | 00 | |
| 15918 | XXXX | 00 | |
| 15940 | ANELLO VINCENT A | 823-6332 | 2 |
| 16841 | XXXX | 00 | |
| 16076 | CONNER MICHAEL | 823-2616 | 8 |
| 16225 | MUNOZ EDWARD P | 823-1833 | 3 |
| 16321 | MCCLEARY ROBNEY P | 823-7764 | 7 |
| 16359 | XXXX | 00 | |
| 16373 | LEAL FRANK | 823-6665 | 0 |
| 16415 | COLE HENRY K | 239-2914 | 9 |
| 16444 | XXXX | 00 | |
| 16447 | SELFA RICHARD | 823-4336 | 1 |
| 16510 | LOWNEY ROBERT | 823-2463 | 9 |
| 16555 | LUCAS ARTHUR J JR | 823-4281 | 3 |
| 16566 | LEONARD ROBERT L | 823-1629 | |
| 16571 | VIERRA EDWARD | 823-5948 | |
| 16574 | XXXX | 00 | |
| 16593 | MACEDO ALBINO | 823-6234 | |
| 16640 | JOHNSON MILDRED | 823-6062 | |
| 16720 | ISBELL ERIC | 239-3794 | +5 |
| 16723 | LUIS RON | 823-6586 | 9 |
| 16797 | RAUCHMAN LAUREN | 823-1371 | 0 |
| 15822 | KENNEDY FRED | 823-0402 | 1 |
| | QUEALEY SCOTT | 823-2498 | 4 |
| 15825 | MEYER EDWARD | 823-3826 | |
| | MEYER KARIN | 823-3826 | |
| 16886 | OSBORNE THOMAS J | 823-4505 | 8 |
| 17029 | INDERBITZEN MARTIN | 823-5947 | |
| 17053 | BAGNASCO CARLO M | 823-7330 | |
| 17185 | XXXX | 00 | |
| 17250 | SILVA TONY | 823-5920 | |
| 17256 | MEYERS BEN C | 823-0537 | +5 |
| 17272 | XXXX | 00 | |
| 17308 | GUILLORY SULLIVAN | 823-5020 | 2 |
| 17336 | XXXX | 00 | |
| 17374 | STRAIT DAVID M | 239-1986 | |
| | STRAIT IMOCENE | 823-0297 | +5 |
| 17379 | MICHELETOS JOHN | 823-6117 | |
| 17396 | WIDMAN BEN H | 823-6836 | |
| 17400 | GARIBAY ROGELTO | 239-1428 | 1 |
| 17422 | NEWTON FRANK | 239-3793 | 4 |
| 17444 | THOMPSON JUDY | 823-7816 | 0 |
| 17500 | JONES ARTHUR | 239-5757 | 4 |
| 17511 | VALENZUELA CONSTR | 823-7242 | |
| | VALENZUELA M JR | 823-7242 | |
| 17530 | WALTER TERRY | 239-1196 | +5 |
| 17564 | XXXX | 00 | |
| 17567 | XXXX | 00 | |
| 17571 | VALTERZA SECONDO | 823-7428 | |
| 17589 | VALTERZA EIORI | 823-6683 | |
| 17600 | XXXX | 00 | |
| 17644 | HILL JIMMY W | 239-2232 | |
| 17650 | CARPENTER RAYMGND | 239-3241 | 2 |
| | CARPENTER URIEL V | 239-3241 | |
| 17663 | XXXX | 00 | |
| 17700 | OUNBAR FRED | 239-2597 | 3 |
| 17703 | CROSLIN CHARLES | 239-3309 | |
| 17725 | XXXX | 00 | |
| 17745 | MAZEY WILLIAM R | 823-2250 | |
| 17748 | DURHAM RICHARD | 823-4853 | 3 |
| 17765 | POGUE JOHN O | 823-2247 | |
| 17785 | BALLARD RAYMOND C | 239-9147 | 6 |
| 17790 | XXXX | 00 | |
| 17801 | MAIERS MTCA FENCE | 239-4407 | 1 |
| 17830 | XXXX | 00 | |
| 17849 | ANDERSON NATHAN | 823-7016 | +5 |
| | BRAZIL LARRY | 823-4910 | 0 |
| 17862 | GONZALEZ CONNIE | 239-1839 | |
| 17934 | HENRY MICHAEL | 823-5778 | |
| 17975 | XXXX | 00 | |
| 18053 | STOWE DONALD REV | 823-0954 | +5 |
| 18101 | BONNET MELVIN | 823-6901 | |
| | HOLCOMB H S | 823-6901 | 8 |
| 18158 | ART CAERAL REALTY | 823-4913 | |
| | CABRAL ART | 239-2596 | |
| | CABRAL APT REALTY | 823-4913 | |
| | CABRAL BRIAN | 239-4015 | +5 |
| 18218 | BIANCHI RICO P | 823-5929 | |
| 18262 | XXXX | 00 | |
| 18266 | YOURAKIS TONY | 823-6958 | |
| 18294 | CATHEY JOE M | 823-6136 | 3 |
| 18352 | OBRIEN LEOHARD | 823-2521 | |
| 18397 | BETTENCOURT EDWARD | 823-2869 | |
| 18400 | BONFIGLIO B | 823-2909 | |
| 18445 | HOUSON HAROLD | 823-4150 | |
| 18485 | SOUZA MANUEL R | 239-1500 | 3 |
| 15498 | RUGGIRELLO C | 823-4498 | |
| 18536 | RUGGIRELLO SAM | 239-1517 | |
| 18556 | NUNES FRANK E | 823-2061 | |
| 18561 | ARETAKIS JOHN | 823-2502 | |
| | HEGWOOD GARY | 823-4340 | +5 |
| 18614 | XXXX | 00 | |
| 18615 | XXXX | 00 | |
| 18640 | XXXX | 00 | |
| 18659 | ZEPEDA FRED | 239-1034 | 3 |
| 18650 | ROMERO C L | 823-6983 | |
| 18742 | STRATFORO M | 823-9121 | 0 |
| 18816 | CARDOZA ALBERT | 239-1038 | +5 |
| 18877 | XXXX | 00 | |
| 18901 | RICHARDSON BOBBY | 823-5027 | 1 |
| | TIPTON VIOLET | 823-6027 | 1 |
| 18903 | WEINMASTER HERMAN | 823-6961 | 9 |
| 18923 | XXXX | 00 | |
| 19055 | PAPADONLIS GEORGE | 239-4879 | 9 |
| | SCHAAPMAN WILLIAM | 239-4886 | 4 |
| 19066 | POTTER WILLIAM | 823-5036 | 8 |
| 19362J | POTTER J E | 823-6067 | 9 |
| 19511 | SCHINGLER GEORGE JR | 823-2321 | |
| | SCHINGLER GEORGE JR | 823-9848 | 0 |
| 19525 | LESLIE HUBERT | 823-7704 | 3 |
| 20081 | VANTILL JAMES C | 823-6964 | |
| 20665 | XXXX | 00 | |
| 20666 | FASSLER JOSEPH W | 599-4885 | |
| 20675 | BETSCHART WALTER | 823-5909 | |
| 20914 | CABRAL EMIL | 823-4413 | |
| 20921 | VANDYKEN LLOYD | 239-6031 | +5 |
| 21128 | BELLA NAPOLI WINERY | 599-3885 | |
| | HAT T R | 599-3885 | |
| NO # | NUNES BOB | 239-1163 | 2 |
| NO # | NUNES HEAVY EQPT | 239-1183 | |
| * | 13 BUS 143 RES | 13 NEW | |

| Target Street | Cross Street | Source |
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| ✓ | - | Haines Criss-Cross Directory |

**S AUSTIN RD 1981**

# AUSTIN RD S 95336
# MANTECA

| | | | |
|---|---|---|---|
| 13101 | MARTIN LEO | 239-1054 | 7 |
| 13133 | XXXX | 00 | |
| 13421 | SEPHOS STEVE | 982-4733 | 7 |
| | SEPHOS STEVE | 823-4043 | 7 |
| 13440J | SALVETTI D | 823-3996 | 9 |

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| Target Street | Cross Street | Source |
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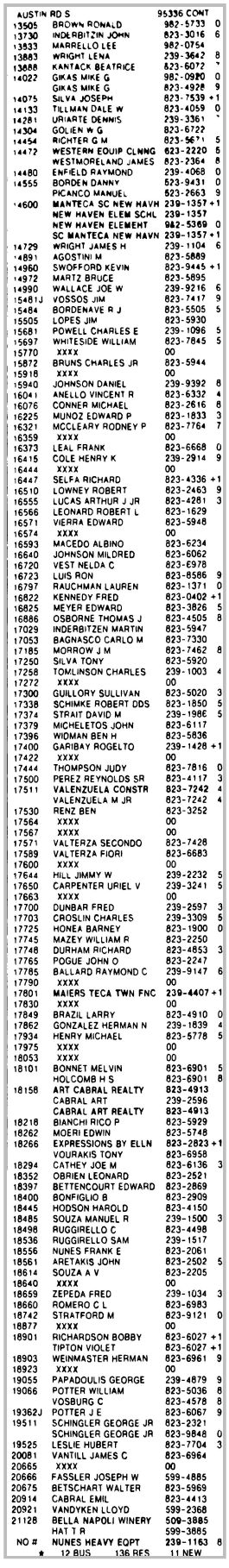
| ✓ | - | Haines Criss-Cross Directory |

# S AUSTIN RD 1981



AUSTIN RD S 95336 CONT

| | | | |
|---|---|---|---|
| 13505 | BROWN RONALD | 982-5733 | 0 |
| 13730 | INDERBITZIN JOHN | 823-3016 | 6 |
| 13833 | MARRELLO LEE | 982-0754 | |
| 13883 | WRIGHT LENA | 239-3642 | 8 |
| 13888 | KANTACK BEATRICE | 823-6072 | * |
| 14022 | GIKAS MIKE G | 982-0920 | 0 |
| | GIKAS MIKE G | 823-4928 | 9 |
| 14075 | SILVA JOSEPH | 823-7539 | +1 |
| 14133 | TILLMAN DALE W | 823-4059 | 0 |
| 14281 | URIARTE DENNIS | 239-3361 | * |
| 14304 | GOLIEN W G | 823-6722 | |
| 14454 | RICHTER G M | 823-5671 | 5 |
| 14472 | WESTERN EQUIP CLNNG | 823-2220 | 5 |
| | WESTMORELAND JAMES | 823-2364 | 8 |
| 14480 | ENFIELD RAYMOND | 239-4068 | 0 |
| 14555 | BORDEN DANNY | 823-9431 | 0 |
| | PICANCO MANUEL | 823-2663 | 9 |
| 14600 | MANTECA SC NEW HAVN | 239-1357 | +1 |
| | NEW HAVEN ELEM SCHL | 239-1357 | |
| | NEW HAVEN ELEMENT | 982-5369 | 0 |
| | SC MANTECA NEW HAVN | 239-1357 | +1 |
| 14729 | WRIGHT JAMES H | 239-1104 | 6 |
| 14891 | AGOSTINI M | 823-5889 | |
| 14960 | SWOFFORD KEVIN | 823-9445 | +1 |
| 14972 | MARTZ BRUCE | 823-5895 | |
| 14990 | WALLACE JOE W | 239-9216 | 6 |
| 15481J | VOSSOS JIM | 823-7417 | 9 |
| 15484 | BORDENAVE R J | 823-5505 | 5 |
| 15505 | LOPES JIM | 823-5930 | |
| 15681 | POWELL CHARLES E | 239-1096 | 5 |
| 15697 | WHITESIDE WILLIAM | 823-7845 | 5 |
| 15770 | XXXX | 00 | |
| 15872 | BRUNS CHARLES JR | 823-5944 | |
| 15918 | XXXX | 00 | |
| 15940 | JOHNSON DANIEL | 239-9392 | 8 |
| 16041 | ANELLO VINCENT R | 823-6332 | 4 |
| 16076 | CONNER MICHAEL | 823-2616 | 8 |
| 16225 | MUNOZ EDWARD P | 823-1833 | 3 |
| 16321 | MCCLEARY RODNEY P | 823-7764 | 7 |
| 16359 | XXXX | 00 | |
| 16373 | LEAL FRANK | 823-6668 | 0 |
| 16415 | COLE HENRY K | 239-2914 | 9 |
| 16444 | XXXX | 00 | |
| 16447 | SELFA RICHARD | 823-4336 | +1 |
| 16510 | LOWNEY ROBERT | 823-2463 | 9 |
| 16555 | LUCAS ARTHUR J JR | 823-4281 | 3 |
| 16566 | LEONARD ROBERT L | 823-1629 | |
| 16571 | VIERRA EDWARD | 823-5948 | |
| 16574 | XXXX | 00 | |
| 16593 | MACEDO ALBINO | 823-6234 | |
| 16640 | JOHNSON MILDRED | 823-6062 | |
| 16720 | VEST NELDA C | 823-6978 | |
| 16723 | LUIS RON | 823-8586 | 9 |
| 16797 | RAUCHMAN LAUREN | 823-1371 | 0 |
| 16822 | KENNEDY FRED | 823-0402 | +1 |
| 16825 | MEYER EDWARD | 823-3826 | 5 |
| 16886 | OSBORNE THOMAS J | 823-4505 | 8 |
| 17029 | INDERBITZEN MARTIN | 823-5947 | |
| 17053 | BAGNASCO CARLO M | 823-7330 | |
| 17185 | MORROW J M | 823-7462 | 8 |
| 17250 | SILVA TONY | 823-5920 | |
| 17258 | TOMLINSON CHARLES | 239-1003 | 4 |
| 17272 | XXXX | 00 | |
| 17300 | GUILLORY SULLIVAN | 823-5020 | 3 |
| 17338 | SCHIMKE ROBERT DDS | 823-1850 | 5 |
| 17374 | STRAIT DAVID M | 239-1986 | 5 |
| 17379 | MICHELETOS JOHN | 823-6117 | |
| 17396 | WIDMAN BEN H | 823-5836 | |
| 17400 | GARIBAY ROGELTO | 239-1428 | +1 |
| 17422 | XXXX | 00 | |
| 17444 | THOMPSON JUDY | 823-7816 | 0 |
| 17500 | PEREZ REYNOLDS SR | 823-4117 | 3 |
| 17511 | VALENZUELA CONSTR | 823-7242 | 4 |
| | VALENZUELA M JR | 823-7242 | 4 |
| 17530 | RENZ BEN | 823-3252 | |
| 17564 | XXXX | 00 | |
| 17567 | XXXX | 00 | |
| 17571 | VALTERZA SECONDO | 823-7428 | |
| 17589 | VALTERZA FIORI | 823-6683 | |
| 17600 | XXXX | 00 | |
| 17644 | HILL JIMMY W | 239-2232 | 5 |
| 17650 | CARPENTER URIEL V | 239-3241 | 5 |
| 17663 | XXXX | 00 | |
| 17700 | DUNBAR FRED | 239-2597 | 3 |
| 17703 | CROSLIN CHARLES | 239-3309 | 5 |
| 17725 | HONEA BARNEY | 823-1900 | 0 |
| 17745 | MAZEY WILLIAM R | 823-2250 | |
| 17748 | DURHAM RICHARD | 823-4853 | 3 |
| 17765 | POGUE JOHN O | 823-2247 | |
| 17785 | BALLARD RAYMOND C | 239-9147 | 6 |
| 17790 | XXXX | 00 | |
| 17801 | MAIERS TECA TWN FNC | 239-4407 | +1 |
| 17830 | XXXX | 00 | |
| 17849 | BRAZIL LARRY | 823-4910 | 0 |
| 17862 | GONZALEZ HERMAN N | 239-1839 | 4 |
| 17934 | HENRY MICHAEL | 823-5778 | 5 |
| 17975 | XXXX | 00 | |
| 18053 | XXXX | 00 | |
| 18101 | BONNET MELVIN | 823-6901 | 5 |
| | HOLCOMB H S | 823-6901 | 8 |
| 18158 | ART CABRAL REALTY | 823-4913 | |
| | CABRAL ART | 239-2596 | |
| | CABRAL ART REALTY | 823-4913 | |
| 18218 | BIANCHI RICO P | 823-5929 | |
| 18262 | MOERI EDWIN | 823-5748 | |
| 18266 | EXPRESSIONS BY ELLN | 823-2823 | +1 |
| | VOURAKIS TONY | 823-6958 | |
| 18294 | CATHEY JOE M | 823-6136 | 3 |
| 18352 | OBRIEN LEONARD | 823-2521 | |
| 18397 | BETTENCOURT EDWARD | 823-2869 | |
| 18400 | BONFIGLIO B | 823-2909 | |
| 18445 | HODSON HAROLD | 823-4150 | |
| 18485 | SOUZA MANUEL R | 239-1500 | 3 |
| 18498 | RUGGIRELLO C | 823-4498 | |
| 18536 | RUGGIRELLO SAM | 239-1517 | |
| 18556 | NUNES FRANK E | 823-2061 | |
| 18561 | ARETAKIS JOHN | 823-2502 | 5 |
| 18614 | SOUZA A V | 823-2205 | |
| 18640 | XXXX | 00 | |
| 18659 | ZEPEDA FRED | 239-1034 | 3 |
| 18660 | ROMERO C L | 823-6983 | |
| 18742 | STRATFORD M | 823-9121 | 0 |
| 18877 | XXXX | 00 | |
| 18901 | RICHARDSON BOBBY | 823-6027 | +1 |
| | TIPTON VIOLET | 823-6027 | +1 |
| 18903 | WEINMASTER HERMAN | 823-6961 | 9 |
| 18923 | XXXX | 00 | |
| 19055 | PAPADOULIS GEORGE | 239-4879 | 9 |
| 19066 | POTTER WILLIAM | 823-5036 | 8 |
| | VOSBURG C | 823-4578 | 8 |
| 19362J | POTTER J E | 823-6067 | 9 |
| 19511 | SCHINGLER GEORGE JR | 823-2321 | |
| | SCHINGLER GEORGE JR | 823-9848 | 0 |
| 19525 | LESLIE HUBERT | 823-7704 | 3 |
| 20081 | VANTILL JAMES C | 823-6964 | |
| 20665 | XXXX | 00 | |
| 20666 | FASSLER JOSEPH W | 599-4885 | |
| 20675 | BETSCHART WALTER | 823-5969 | |
| 20914 | CABRAL EMIL | 823-4413 | |
| 20921 | VANDYKEN LLOYD | 599-2368 | |
| 21128 | BELLA NAPOLI WINERY | 509-3885 | |
| | HAT T R | 599-3885 | |
| NO # | NUNES HEAVY EQPT | 239-1163 | 8 |

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# S AUSTIN RD 1977

AUSTIN RD S 95336 MANTECA

11492 FANNIN WALLACE 982-0756 5
11518 XXXX OO
12908 FINEO R C 982-1428
SKINNER E M 239-3978 6
13101 MARTIN LEO 239-1054+7
13133 NASCIMENTO RICHARD 823-4518
13175 REYNOLDS MICHAEL 823-2760+7
13421 SEPHOS STEVE A 823-4043+7
SEPHOS STEVE 823-4043+7
SEPHOS STEVE 982-4733+7
13440 SALVETTI D 823-3996
13505 XXXX OO
13730 INDERBITZIN JOHN 823-3016 6
13833 MARRELLO LEE 982-0754
13888 KANTACK BEATRICE 823-6072+7
14022 GIKAS MIKE G 823-4928+7
14075 TILLMAN DALE W 823-4059
14281 URIARTE DENNIS 239-3361+7
14304 GOLIEN W G 823-6722
14464 RICHTER G M 823-5671 5
14472 WALLACE ROBT C 823-3993 5
14480 BEEVER DAN 823-1365 5
14555 FACHNER J A 823-7496 5
14600*MANTECA UNIFD SCH 239-1357
*NEW HAVEN ELEM SCHL 239-1357
14729 WRIGHT JAMES H 239-1104 6
14891 AGOSTINI M 823-5889
14960 MELLOR EUGENE L DR 823-7761 5
14972 MARTZ BRUCE 823-5895
14990 WALLACE JOE W 239-9216 6
15481 VOSSOS JIM 823-7417
15484 BORDENAVE R J 823-5505 5
15505 LOPES JIM 823-5930
15681 POWELL CHARLES E 239-1096 5
15697 WHITESIDE WILLIAM 823-7845 5
15770 DART BILL 823-1083 5
15872 BRUNS CHARLES JR 823-5944
15918 XXXX OO
16041 ANELLO VINCENT R 823-6332 4
16076 BORDENAVE JOHN 823-4104 5
16225 MUNOZ EDWARD P 823-1833 3
16321 MCCLEARY RODNEY P 823-7764+7
16359 GOULARTE JOSEPH 239-2296 6
16373 JOHNSON R C 239-2996 4
16415 MATHEWS ALVIN 823-4144
16444 TAYLOR VERNON 239-3951+7
16447 CROSSLAND ARNOLD 823-1801
16555 LUCAS ARTHUR J JR 823-4281 3
16566 LEONARD ROBERT L 823-1629
16571 VIERRA EDWARD 823-5948
16574 GUSTAFSON PHILLIP 823-4620 5
16593 MACEDO ALBINO 823-6234
16640 JOHNSON MILDRED 823-6062
16720 VEST NELDA C 823-6978
16723 ALLEN VICTOR 239-2646 6
16797 HAYES JOHN 823-3924 5
16822 BOLINGBROKE DREW 239-2446 4
TAYLOR MANCIL 823-1981 4
16825 MEYER EDWARD 823-3826 5
MEYER KARIN 823-3826 5
16886 XXXX OO
17029 INDERBITZEN MARTIN 823-5947
17053 BAGNASCO CARLO M 823-7330
17185 WALKER ALEX 239-2408 4
17250 SILVA TONY 823-5920
17258 TOMLINSON CHARLES 239-1003 4
17272 POOLEY B 239-5807+7
17300 GUILLORY SULLIVAN 823-5020 3
17338 SCHIMKE ROBERT DDS 823-1850 5
17374 STRAIT DAVID M 239-1986 5
17379 MICHELETOS JOHN 823-6117
17396 WIDMAN BEN H 823-5836
17400 XXXX OO
17422 XXXX OO
17444 XXXX OO
17500 BEHLEN OTTO 823-6909
PEREZ REYNOLDS SR 823-4117 3
17511*VALENZUELA CONSTR 823-7242 4
*VALENZUELA M JR 823-7242 4
17530 RENZ BEN 823-3252
17564 XXXX OO
17567 ECKERLE CLIFFORD 239-9132+7
17571 VALTERZA SECONDO 823-7428
17589 VALTERZA FIORI 823-6683
17644 HILL JIMMY W 239-2232 5
17650 CARPENTER URIEL V 239-3241 5
17663 HIGHTOWER HOMER 823-6986
17700 DUNBAR FRED 239-2597 3
17703 CROSLIN CHARLES 239-3309 5
17745 MAZEY WILLIAM R 823-2250
17748 DURHAM RICHARD 823-4853 3
17765 POGUE JOHN O 823-2247
17785 BALLARD RAYMOND C 239-9147 6
17790 XXXX OO
17849 BUMGARNER EVELYN 823-2475+7
S BUMGARNER K 239-3692+7
S PAT PAT 239-3692+7
17862 GONZALEZ HERMAN N 239-1839 4
17934 HENRY MICHAEL 823-5778 5
17975 XXXX OO
18053*THOMPSON CONSTRUCTN 239-9103+7
18069 XXXX OO
18101 BONNET MELVIN 823-6901 5
18158*ART CABRAL REALTY 823-4913
*CABRAL ART REALTY 823-4913
CABRAL ART 239-2596
18218 BIANCHI RICO P 823-5929
18262 MOERI EDWIN 823-5748
18266 VOURAKIS TONY 823-6958
18294 CATHEY JOE M 823-6136 3
18352 OBRIEN LEONARD 823-2521
18397 BETTENCOURT EDWARD 823-2869
18400 BONFIGLIO B 823-2909
18445 HODSON HAROLD 823-4150
18485 SOUZA MANUEL R 239-1500 3
18498 RUGGIRELLO C 823-4498
18536 RUGGIRELLO SAM 239-1517

| Target Street | Cross Street | Source |
|---|---|---|
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## S AUSTIN RD 1977

..AUSTIN RD S 95336 CONT..

| | | |
|---|---|---|
| 18556 | NUNES FRANK E | 823-2061 |
| 18561 | ARETAKIS JOHN | 823-2502 5 |
| 18614 | SOUZA A V | 823-2205 |
| 18640 | XXXX | OO |
| 18659 | ZEPEDA FRED | 239-1034 3 |
| 18660 | ROMERO C L | 823-6983 |
| 18742 | ATKINS PHILIP | 823-4387 4 |
| 18877 | XXXX | OO |
| 18901 | PITTMAN MICHAEL | 823-3009+7 |
| 18923 | WEINMASTER HERMAN | 823-6961 |
| 19055 | XXXX | OO |
| 19066 | VOSBURG C | 823-5036+7 |
| 19362 | POTTER J E | 823-6067 |
| 19511 | SCHINGLER GEORGE JR | 823-2321 |
| 19525 | LESLIE HUBERT | 823-7704 3 |
| 20081 | VANTILL JAMES C | 823-6964 |
| 20675 | BETSCHART WALTER | 823-5969 |
| 20914 | CABRAL EMIL | 823-4413 |

* 7 BUS 128 RES 18 NEW

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

## S AUSTIN RD 1974

AUSTIN RD S 95336 MANTECA

| | | |
|---|---|---|
| 6600 | REYNA PEDRO | 464-2076 3 |
| 8106 | WEIERSHAUSER H MRS | 462-5923+4 |
| 9621 | XXXX | 00 |
| 9690 | PERRY JOE R | 464-8936+4 |
| 11492 | FANNIN WALLACE | 462-5925 |
| 11518 | BOX FERREL A | 465-8775 |
| 12908 | FINEO R C | 982-1428 |
| 13101 | JARDIN FRANK R | 823-2808 |
| 13133 | NASCIMENTO RICHARD | 823-4518 |
| 13175 | SEPHOS STEVE | 823-4043+4 |
| 13440 | SALVETTI D | 823-3996 |
| 13505 | KAISER M | 239-2130 |
| 13730 | FAGUNDES ALFREO | 823-4053 |
| 13833 | MARRELLO LEE | 982-0754 |
| 13888 | KANTACK BEATRICE | 823-6072 |
| 14022 | GIKAS MIKE G | 823-4928 |
| 14075 | TILLMAN DALE W | 823-4059 |
| 14207 | PIMENTEL M R | 823-4069 |
| 14281 | PETERSEN EMMA | 823-3950 |
| 14304 | GOLIEN W G | 823-6722 |
| 14464 | MCMANIS CLARENCE | 823-3030 3 |
| 14510 | JOHANNSEN JOHN | 823-1667 3 |
| 14555 | VANRIET GERRIT | 823-4086 |
| 14600 | *MANTECA NEW HVN ELM | 239-1357 |
| | *NEW HAVEN ELEM SCHL | 239-1357 |
| 14729 | SMITH HARRIS L | 239-2485 3 |
| 14891 | AGOSTINI M | 823-5889 |
| 14960 | COOPER GEORGE V | 239-2367 |
| 14972 | MARTZ BRUCE | 823-5895 |
| 14990 | XXXX | 00 |
| 15481 | VOSSOS JIM | 823-7417 |
| 15484 | MARIN EUGENE R | 823-6714 |
| 15505 | LOPES JIM | 823-5930 |
| 15555 | POWELL CHARLES E | 239-1096+4 |
| 15697 | LEE ROBERT E | 823-4711+4 |
| 15770 | AUSTIN NEIL | 823-6491 3 |
| | JOHNSON MARY | 823-6491 3 |
| 15872 | BRUNS CHARLES JR | 823-5944 |
| 15918 | WILLIAMS ELMER | 823-5933 |
| 16041 | ANELLO VINCENT R | 823-6332+4 |

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# S AUSTIN RD 1974

..AUSTIN RD S 95336 CONT..
16076 XXXX 00
16225 MUNOZ EDWARD P 823-1833 3
16321 TROGLIA HARRY 823-5174
16373 JOHNSON R C 239-2996+4
16415 MATHEWS ALVIN 823-4144
16444 XXXX 00
16447 CROSSLAND ARNOLD 823-1801
16475 GUSTAFSON PHILLIP 823-4620
16555 LUCAS ARTHUR J JR 823-4281 3
16566 LEONARD ROBERT L 823-1629
16571 VIERRA EDWARD J 823-5948
16590 COLE LLOYD H 823-6760+4
16593 MACEDO ALBINO 823-6234
16617 SARINA WILLIAM 823-2791
16640 JOHNSON MILDRED 823-6062
16720 VEST NELDA C 823-6978
16723 SILVEIRA ROBERT 823-7303 3
16822 BOLINGBROKE DREW 239-2446+4
TAYLOR MANCIL 823-1981+4
16825 XXXX 00
16873 BENDER JIMMIE 823-2288 3
16886 OSBORNE THOMAS L 823-4505
17029 INDERBITZEN MARTIN 823-5947
17053 BAGNASCO CARLO M 823-7330
17185 WALKER ALEX 239-2408+4
17250 SILVA TONY 823-5920
17258 TOMLINSON CHARLES 239-1003+4
17268 XXXX 00
17272 POOLEY JAMES F 239-1710+4
17300 GUILLORY SULLIVAN 823-5020 3
17338 SCHIMKE ROBERT E DR 823-1850
17374 XXXX 00
17379 MICHELETOS JOHN 823-6117
17396 WIDMAN BEN H 823-5836
17422 WILLINGHAM EDWARD 823-5763
17444 GOMES NANCY 823-3692+4
17500 BEHLEN OTTO 823-6909
PEREZ REYNOLDS SR 823-4117 3
17511 *VALENZUELA CONSTR 823-7242+4
*VALENZUELA M JR 823-7242+4
17530 RENZ BEN 823-3252
17564 MANNING B B 823-5148
17567 BLANK TOM C 823-3350+4
17571 VALTERZA SECONDO 823-7428
17589 VALTERZA F 823-6683
17637 MOORMAN RUSSELL 823-6543
17650 SMITH OMIE 239-3241+4
17663 HIGHTOWER HOMER 823-6986
17700 DUNBAR FRED 239-2597 3
17724 VEACH DONALD M 823-6692 3
17725 XXXX 00
17745 MAZEY WILLIAM R 823-2250
17748 DURHAM RICHARD 823-4853 3
17765 POGUE JOHN O 823-2247
17785 WHITE ROBERT R 823-6884 3
17790 DERRICK DELMER 823-3988
17801 XXXX 00
17830 COOK JAMES K 823-7414+4
17849 BUMGARNER EDWARD 823-2475
17862 GONZALEZ HERMAN N 239-1839+4
17975 XXXX 00
18053 TUNZI VITO 823-4046
18069 SILVA RAFAEL 239-3122+4
18101 BONNET JOE 823-6901
18158 *ART CABRAL REALTY 823-4913
*CABRAL ART REALTY 823-4913
CABRAL ART 239-2596
18218 BIANCHI RICO P 823-5929
18262 MOERI EDWIN 823-5748
18266 VOURAKIS TONY 823-6958
18285 XXXX 00
18294 CATHEY JOE M 823-6136 3
18336 AKSLAND HELEN 239-2976+4
18352 OBRIEN LEONARD 823-2521
18397 BETTENCOURT EDWARD 823-2869
18400 BONFIGLIO B 823-2909
18445 HODSON HAROLD 823-4150
18485 SOUZA MANUEL R 239-1500 3
18498 RUGGIRELLO C 823-4498
18536 RUGGIRELLO SAM 239-1517
18556 NUNES FRANK E 823-2061
18614 SOUZA A V 823-2205
18640 ASIVIDO FRANK 823-2087
18659 ZEPEDA FREO 239-1034 3
18660 ROMERO C L 823-6983
18742 ATKINS PHILIP 823-4387+4
18877 JIMINEZ JOSE 823-6337
18901 WILSON DWIGHT 823-6419+4
18923 WEINMASTER HERMAN 823-6961
19207 XXXX 00
19362 POTTER J E 823-6067
19511 SCHINGLER GEORGE JR 823-2321
19525 LESLIE HUBERT 823-7704 3
19551 XXXX 00
20081 VANTILL JAMES C 823-6954
20675 BETSCHART WALTER 823-5969
20914 CABRAL EMIL 823-4413
21004 XXXX 00
22198 COTRELL JOHN 823-5430+4
NO # AKSLAND CLIFFORD L 823-2515
* 6 BUS 134 RES 25 NEW

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# S AUSTIN RD 1971

AUSTIN RD S 95336 MANTECA

| | | |
|---|---|---|
| 9621 | SALMON ADOLPH | 465-4801 |
| 9690 | PERRY JOE R | 464-5898 |
| 11492 | FANNIN WALLACE | 462-5925 |
| 11518 | BOX FERREL A | 465-8775 |
| 12908 | FINEO R C | 982-1428 |
| 13101 | JARDIN FRANK R | 823-2808 |
| 13133 | NASCIMENTO RICHARD | 823-4518 |
| 13175 | SEPHOS STEVE | 823-4043 |
| | SEPHOS STEVE | 982-4733 |
| 13440 | SALVETTI D | 823-3996 |
| 13505 | KAISER M | 239-2130 |
| 13730 | FAGUNDES ALFREO | 823-4053 |
| 13833 | MARRELLO LEE | 982-0754 |
| 13888 | KANTACK BEATRICE | 823-6072 |
| 14022 | GIKAS MIKE G | 823-4928 |
| 14075 | TILLMAN DALE W | 823-4059 |
| 14207 | PIMENTEL M R | 823-4069 |
| 14281 | PETERSEN EMMA | 823-3950 |
| 14304 | GOLIEN W G | 823-6722 |
| 14464 | ROBERTS L | 823-7753 |
| 14510 | FRY B | 239-1444 |
| 14555 | VANRIET GERRIT | 823-4086 |
| 14600 | *MANTECA NEW HVN ELM | 239-1357 |
| | *NEW HAVEN ELEM SCHL | 239-1357 |
| 14729 | SILVA MANUEL M | 823-4040 |
| 14891 | AGOSTINI M | 823-5889 |
| 14960 | COOPER GEORGE V | 239-2367 |
| 14972 | MARTZ BRUCE | 823-5895 |
| 14990 | RAMSO LOUIE | 823-5851 |
| 15481 | VOSSOS JIM | 823-7417 |
| 15484 | MARIN EUGENE R | 823-6714 |
| 15505 | LOPES JIM | 823-5930 |
| 15555 | LUCAS ARTHUR J JR | 823-4281 |
| 15663 | TREAT ROBERT W | 823-4719 |
| 15770 | AUSTIN NIEL T | 239-1097 |
| 15872 | BRUNS CHARLES JR | 823-5944 |
| 15918 | WILLIAMS ELMER | 823-5933 |
| 16041 | MUNOZ EDWARD E | 823-1833 |
| 16076 | LANGUM PAUL | 823-7747 |
| 16321 | TROGLIA HARRY | 823-5174 |
| 16415 | MATHEWS ALVIN | 823-4144 |
| 16444 | GLAZE ALTON | 823-6525 |
| 16447 | CROSSLAND ARNOLD | 823-1801 |
| 16475 | GUSTAFSON PHILLIP | 823-4620 |
| 16566 | LEONARD ROBERT L | 823-1629 |
| 16571 | VIERRA EDWARD J | 823-5948 |
| | WILLIS MARSHA | 823-5948 |
| 16590 | BRINKLEY W H | 823-6913 |
| 16593 | MACEDO ALBINO | 823-6234 |
| 16617 | SARINA WILLIAM | 823-2791 |
| 16640 | JOHNSON MILORED | 823-6062 |
| 16720 | VEST NELDA C | 823-6978 |
| 16723 | SCOTT ROY J | 823-3881 |
| 16822 | BRYAN PATRICK D JR | 823-3928 |
| 16886 | OSBORNE THOMAS L | 823-4505 |
| 17029 | INDERBITZEN MARTIN | 823-5947 |
| 17053 | BAGNASCO CARLO M | 823-7330 |
| 17185 | POULOS FRANK D | 823-6992 |
| 17204 | KHAN SULTAN AFSAN | 823-1350 |
| 17250 | SILVA TONY | 823-5920 |
| 17268 | ELLIOTT JAMES | 823-6682 |
| 17272 | SILVA LOUIE | 823-6674 |
| 17338 | SCHIMKE ROBERT E DR | 823-1850 |

whatsoever except as authorized in writing by Haines & Co. Inc.

| Target Street | Cross Street | Source |
|---|---|---|
| ✓ | - | Haines Criss-Cross Directory |

# S AUSTIN RD 1971

| | | |
|---|---|---|
| 17374 | GARCIA MANUEL A | 823-7343 |
| 17379 | MICHELETOS JOHN | 823-6117 |
| 17396 | WIOMAN BEN H | 823-5836 |
| 17422 | WILLINGHAM EOWARO | 823-5763 |
| 17500 | 8EHLEN OTTO | 823-6909 |
| | PEREZ REYMONDS SR | 823-4117 |
| 17511 | SPENCE W N | 823-6158 |
| 17530 | RENZ BEN | 823-3252 |
| 17564 | MANNING B B | 823-5148 |
| 17567 | RIGGLE CHARLES | 823-5946 |
| | VERSIC ANTON | 823-5946 |
| 17571 | VALTERZA SECONOO | 823-7428 |
| 17589 | VALTERZA F | 823-6683 |
| 17637 | MOORMAN RUSSELL | 823-6543 |
| 17650 | KRAM H C | 823-6989 |
| 17663 | HIGHTOWER HOMER | 823-6986 |
| 17700 | WINOSOR GEORGE | 823-5642 |
| 17725 | BARON B | 823-2368 |
| | MERRITT I P | 823-1080 |
| | VEACH OONALO M | 823-6692 |
| 17745 | MAZEY WILLIAM R | 823-2250 |
| 17765 | POGUE JOHN J | 823-5860 |
| | POGUE JOHN O | 823-2247 |
| 17790 | OERRICK OELMER | 823-3988 |
| 17801 | ROBERTS REX O | 239-2320 |
| 17830 | LAGRONE CLARENCE | 239-1839 |
| 17849 | BUMGARNER EOWARO | 823-2475 |
| | BUMGARNER KATHY | 823-5137 |
| 17975 | OIAMANTE GENE | 823-6058 |
| 18053 | TUNZI VITO | 823-4046 |
| 18101 | BONNET JOE | 823-6901 |
| 1815B* | ART CABRAL REALTY | 823-4913 |
| | CABRAL ART | 239-2596 |
| | *CABRAL ART REALTY | 823-4913 |
| 18218 | BIANCHI RICO P | 823-5929 |
| 18262 | MOERI EOWIN | 823-5748 |
| 18266 | VOURAKIS TONY | 823-6958 |
| 18285 | CABRAL G | 823-6981 |
| 18294 | CASKEY SHIRLEY | 823-4529 |
| 18352 | O8RIEN LEONARO | 823-2521 |
| 18397 | BETTENCOURT EOWARO | 823-2869 |
| 18400 | BONFIGLIO B | 823-2909 |
| 18445 | HOOSON HAROLO | 823-4150 |
| 18485 | SOUSA MANUEL R | 239-1500 |
| 1849B | RUGGIRELLO C | 823-4498 |
| 18536 | RUGGIRELLO SAM | 239-1517 |
| 18556 | NUNES FRANK E | 823-2061 |
| 18614 | SOUZA A V | 823-2205 |
| 18640 | ASIVIOO FRANK | 823-2087 |
| 18659 | FLANOERS GOROON | 823-1576 |
| 18660 | ROMERO C L | 823-6983 |
| 18877 | JIMINEZ JOSE | 823-6337 |
| 18901 | OILOAY GARY | 239-1713 |
| 18903 | REIO G O | 823-4333 |
| 18923 | WEINMASTER HERMAN | 823-6961 |
| 19207 | RAMIREZ JUSTO | 239-1109 |
| 19362 | POTTER J E | 823-6067 |
| 19511 | SCHINGLER GEORGE JR | 823-2321 |
| 19551 | GENOVA KATHERINE | 823-7920 |
| 20081 | VANTILL JAMES C | 823-6964 |
| 20675 | BETSCHART WALTER | 823-5969 |
| 20914 | CABRAL EMIL | 823-4413 |
| 21004 | ANAYA ENRIQUE | 823-3761 |
| NO # | AKSLAND CLIFFORO L | 823-2515 |
| * | 4 BUS 124 RES | |

DRAFT

# APPENDIX F

## CALIFORNIA LABORATORY SERVICES

## Laboratory Analytical Report

CALIFORNIA LABORATORY SERVICES
*Committed. Responsive. Flexible.*

April 15, 2021

**CLS Work Order #: 21D0499**
**COC #:**

Jason Sedore
ENGEO-Lathrop
17278 Golden Valley Parkway
Lathrop, CA 95330

**Project Name: Yosemite Square**

Enclosed are the results of analyses for samples received by the laboratory on 04/08/21 18:12. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233

# CALIFORNIA LABORATORY SERVICES CHAIN OF CUSTODY

CLS ID. NO. 21D0499 ( of )

| Report To: | Client Job Number | PRESERVATIVES | ANALYSIS REQUESTED | GEOTRACKER |
|---|---|---|---|---|
| Name and Address<br>ENGEO Incorporated | Destination Laboratory | | Organochlorine Pesticides (EPA 8081)<br>Arsenic and Lead (EPA 6020) | EDF REPORT ☐ YES ☐ NO |
| 17278 Golden Valley Parkway, Lathrop, CA 95330 | CLS (916) 638-7301<br>3249 Fitzgerald Road<br>Rancho Cordova, CA 95742 | | | GLOBAL ID: |
| Project Manager<br>Jason Sedore | | | | FIELD CONDITIONS: |
| Email: jsedore@engeo.com Phone: (925)-719-0822 | | | | |
| Project Name<br>Yosemite Square | | | | |
| Sampled By<br>Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Karagiannis | | | | |
| Job Description<br>Agrichemical sampling | | | | TURNAROUND TIME IN DAYS: 1 2 4 5 |
| Site Location<br>Manteca, CA | | | | SPECIAL INSTRUCTIONS |

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/2021 | 10:30a | S-1 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | Composite every 4th |
| | 10:33 | S-2 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | sample for OCPS |
| | 10:36 | S-3 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:39 | S-4 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:42 | S-5 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | |
| | 10:45 | S-6 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:48 | S-7 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | PO# 18586.000.001 |
| | 10:50 | S-8 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:53 | S-9 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | |
| | 10:57 | S-10 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:00 | S-11 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:03 | S-12 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | VICTORIA DRAKE/ENGEO CLS | 4/8/21-12014<br>APR 8 21 - 1620 | | CL |

RECEIVED AT LAB BY: DATE/TIME: 4/8/21 1620 CONDITIONS/COMMENTS: 4.8

SHIPPED BY: ☐ FED EX ☐ UPS ☑ OTHER CLS AIR BILL #

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Kerosiotis

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

**ANALYSIS REQUESTED**

PRESERVATIVES ▼

Organochlorine Pesticides (EPA 8081)
Arsenic and Lead (EPA 6020)

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/21 | 11:00 | S-13 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | Composite every 4th |
| | 11:13 | S-14 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | sample for OCPS |
| | 11:16 | S-15 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:19 | S-16 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:22 | S-17 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | |
| | 10:31 | S-18 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:34 | S-19 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | PO# 18586.000.001 |
| | 10:37 | S-20 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:40 | S-21 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | |
| | 10:42 | S-22 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:45 | S-23 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 10:48 | S-24 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V.DRAKE/ENGEO CLS | 4/8/21 1210H | | CLS |

**RECEIVED AT LAB BY:** **DATE/TIME:** **CONDITIONS/COMMENTS:**

**SHIPPED BY:** ☐ FED EX ☐ UPS ☐ OTHER _____ **AIR BILL #** _____

**CHAIN OF CUSTODY** **CLS ID. NO.** _____ ( of )

21D0499

# CALIFORNIA LABORATORY SERVICES

**Report To:**
Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Kerasmos

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | ANALYSIS REQUESTED: Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS: 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/2021 | 10:51 | S-25 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | Composite every 4th |
| | 10:54 | S-26 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | sample for OCPS |
| | 11:10 | S-27 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:12 | S-28 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:15 | S-29 | | SOIL | 1 | 4 oz. | 3 | X | X | | | | X | |
| | 11:18 | S-30 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:20 | S-31 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | PO# 18586.000.001 |
| | 11:25 | S-32 | | SOIL | 1 | 4 oz. | 3 | X | | | | | X | |
| | 11:28 | S-33 | | | | | | X | X | | | | X | |
| | 11:33 | S-34 | | | | | | X | | | | | X | |
| | 11:37 | S-35 | | | | | | X | | | | | X | |
| | 11:40 | S-36 | | | | | | X | | | | | X | |

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO | 4/8/21 - 1200 | | CLS |
| | CLS | 4/8/21 - 1620 | | |

RECEIVED AT LAB BY: DATE/TIME: 4/8/21 1620 CONDITIONS/COMMENTS: 4-8

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER CL AIR BILL #

**CHAIN OF CUSTODY** CLS ID. NO. _____ (___ of ___)

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Efrain Karajianos

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | ANALYSIS REQUESTED: Organochlorine Pesticides (EPA 8081) | ANALYSIS REQUESTED: Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS: 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/8/21 | 11:31 | S-37 | | Soil | 1 | 4 oz | 3 | X | X | | | | X | Composite every 4th |
| | 11:33 | S-38 | | | | | | X | | | | | X | sample for OCPS |
| | 11:36 | S-39 | | | | | | X | | | | | X | |
| | 11:39 | S-40 | | | | | | X | | | | | X | |
| | 11:42 | S-41 | | | | | | X | X | | | | X | |
| | 11:46 | S-42 | | | | | | X | | | | | X | |
| | 11:50 | S-43 | | | | | | X | | | | | X | PO# 18586.000.001 |
| | 11:52 | S-44 | | | | | | X | | | | | X | |
| | 11:55 | S-45 | | | | | | X | X | | | | X | |
| | 11:58 | S-46 | | | | | | X | | | | | X | |
| | 12:06 | S-47 | | | | | | X | | | | | X | |
| | 12:09 | S-48 | | | | | | X | | | | | X | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO | 4/8/21-1200 | | CLS |
| | | 4/8/21-1535 | | |

**RECEIVED AT LAB BY:** **DATE/TIME:** **CONDITIONS/COMMENTS:**

**SHIPPED BY:** ☐ FED EX ☐ UPS ☑ OTHER GLS **AIR BILL #**

**CHAIN OF CUSTODY** **CLS ID. NO.** ( of )

2100499

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Kalogiannis

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | ANALYSIS REQUESTED: Organochlorine Pesticides (EPA 8081) | ANALYSIS REQUESTED: Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS: 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/2021 | 11:46 | S-49 | | Soil | 1 | 4 oz | 3 | X | X | | | | X | Composite every 4th |
| | 11:50 | S-50 | | | | | | X | | | | | X | sample for OCPS |
| | 11:52 | S-51 | | | | | | X | | | | | X | |
| | 11:55 | S-52 | | | | | | X | | | | | X | |
| | 11:58 | S-53 | | | | | | X | X | | | | X | |
| | 12:04 | S-54 | | | | | | X | | | | | X | |
| | 12:07 | S-55 | | | | | | X | | | | | X | PO# 18586.000.001 |
| | 12:09 | S-56 | | | | | | X | | | | | X | |
| | 12:11 | S-57 | | | | | | X | X | | | | X | |
| | 12:13 | S-58 | | | | | | X | | | | | X | |
| | 12:17 | S-59 | | | | | | X | | | | | X | |
| | 12:20 | S-60 | | | | | | X | | | | | X | |

SUSPECTED CONSTITUENTS

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO | 4/8/21-1110 | | |
| | CLS | APR 8/21-16701 | | |

RECEIVED AT LAB BY: [signature]  DATE/TIME: 4/8/21 1620

CONDITIONS/COMMENTS: 4.8

SHIPPED BY: ☐ FED EX ☐ UPS ☒ OTHER CLI  AIR BILL #

**CHAIN OF CUSTODY**  CLS ID. NO. _____ ( of )

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Karagiannis

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

**ANALYSIS REQUESTED**

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7/7/21 | 12:20 | S-61 | | Soil | 1 | 4oz | 3 | X | X | | | | X | Composite every 4th |
| | 12:22 | S-62 | | | | | | X | | | | | X | sample for OCPS |
| | 12:25 | S-63 | | | | | | X | | | | | X | |
| | 12:30 | S-64 | | | | | | X | | | | | X | |
| | 12:33 | S-65 | | | | | | X | X | | | | X | |
| | 12:36 | S-66 | | | | | | X | | | | | X | |
| | 12:45 | S-67 | | | | | | X | | | | | X | PO# 18586.000.001 |
| | 12:48 | S-68 | | | | | | X | | | | | X | |
| | 12:52 | S-69 | | | | | | X | X | | | | X | |
| | 12:59 | S-70 | | | | | | X | | | | | X | |
| | 1:09 | S-71 | | | | | | X | | | | | X | |
| ↓ | TBD | S-72 | | ↓ | ↓ | ↓ | ↓ | X | | | | | X | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE / ENGEO | 7/8/21 1200 | | CLS |
| | CLS | 7/8/21 1620 | | |

**RECEIVED AT LAB BY:** **DATE/TIME:** **CONDITIONS/COMMENTS:**

**SHIPPED BY:** ☐ FED EX ☐ UPS ☒ OTHER CLS  **AIR BILL #**

**CHAIN OF CUSTODY**  **CLS ID. NO.** _____ (___ of ___)

21D0499

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Karagianes

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | ANALYSIS REQUESTED: Organochlorine Pesticides (EPA 8081) | ANALYSIS REQUESTED: Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS: 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/2021 | 12:09 | S-73 | | Soil | 1 | 402 | 3 | X | X | | | | X | Composite every 4th |
| | 12:12 | S-74 | | | | | | X | | | | | X | sample for OCPS |
| | 2:05 | S-75 | | | | | | X | | | | | X | |
| | 2:08pm | S-76 | | | | | | X | | | | | X | |
| | 12:15 | S-77 | | | | | | X | X | | | | X | |
| | 12:20 | S-78 | | | | | | X | | | | | X | |
| | 12:25 | S-79 | | | | | | X | | | | | X | PO# 18586.000.001 |
| | 12:28 | S-80 | | | | | | X | | | | | X | |
| | 12:31 | S-81 | | | | | | X | X | | | | X | |
| | 12:34 | S-82 | | | | | | X | | | | | X | |
| | 12:37 | S-83 | | | | | | X | | | | | X | |
| | 12:45 | S-84 | | | | | | X | | | | | X | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO | 4/8/21-1210 | | CLS |
| | CLS | 4/8/21-1629 | | |

**RECEIVED AT LAB BY:** DATE/TIME: 4/8/21 1620  CONDITIONS/COMMENTS: 4.8

**SHIPPED BY:** ☐ FED EX ☐ UPS ☒ OTHER CLS  AIR BILL #

**CHAIN OF CUSTODY**  **CLS ID. NO.** _____ (___ of ___)

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Eleni Kotsionos

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

**ANALYSIS REQUESTED**

PRESERVATIVES ▼

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/1/2021 | 12:50 | S-85 | | Soil | 1 | 4oz | X | X | | | | X | Composite every 4th |
| | 12:52 | S-86 | | | | | X | | | | | X | sample for OCPS |
| | 12:55 | S-87 | | | | | X | | | | | X | |
| | 1:00 | S-88 | | | | | X | | | | | X | |
| | 1:03 | S-89 | | | | | X | X | | | | X | |
| | 1:05 | S-90 | | | | | X | | | | | X | |
| | 1:10 | S-91 | | | | | X | | | | | X | PO# 18586.000.001 |
| | 1:15 | S-92 | | | | | X | | | | | X | |
| | 1:18 | S-93 | | | | | X | X | | | | X | |
| | 1:21 | S-94 | | | | | X | | | | | X | |
| | 1:25 | S-95 | | | | | X | | | | | X | |
| | 1:28 | S-96 | | | | | X | | | | | X | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO CLS | 4/9/21 - 1210 4/9/21 - 1625 | | CLS |

**RECEIVED AT LAB BY:** | **DATE/TIME:** | **CONDITIONS/COMMENTS:**

**SHIPPED BY:** ☐ FED EX ☐ UPS ☑ OTHER CLS  **AIR BILL #**

**CHAIN OF CUSTODY**  **CLS ID. NO.** ( of )

21D0499

# CALIFORNIA LABORATORY SERVICES

**Report To:**

Name and Address
ENGEO Incorporated

17278 Golden Valley Parkway, Lathrop, CA 95330

Project Manager
Jason Sedore

Email: jsedore@engeo.com  Phone: (925)-719-0822

Project Name
Yosemite Square

Sampled By
Jason Sedore 925-719-0822 jsedore@engeo.com / Elena Kerogianos

Job Description
Agrichemical sampling

Site Location
Manteca, CA

Client Job Number

Destination Laboratory

CLS (916) 638-7301
3249 Fitzgerald Road
Rancho Cordova, CA 95742

**ANALYSIS REQUESTED**

PRESERVATIVES ▼

- Organochlorine Pesticides (EPA 8081)
- Arsenic and Lead (EPA 6020)

GEOTRACKER

EDF REPORT ☐ YES ☐ NO

GLOBAL ID.

FIELD CONDITIONS:

| DATE | TIME | SAMPLE IDENTIFICATION | FIELD ID. | MATRIX | CONTAINER NO. | CONTAINER TYPE | PRESERVATIVES | Organochlorine Pesticides (EPA 8081) | Arsenic and Lead (EPA 6020) | TURNAROUND TIME IN DAYS 1 | 2 | 4 | 5 | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/7/2021 | 135 | S-97 | | Soil | 1 | 4oz | 3 | X | X | | | | X | Composite every 4th |
| | 139 | S-98 | | | | | | X | | | | | X | sample for OCPS |
| | 142 | S-99 | | | | | | X | | | | | X | |
| | 145 | S-100 | | | | | | X | | | | | X | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | PO# 18586.000.001 |
| | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |

**SUSPECTED CONSTITUENTS**

SAMPLE RETENTION TIME

PRESERVATIVES (1) HCL (2) $HNO_3$ (3) = COLD (4)= $H_2SO_4$

| RELINQUISHED BY (Signature) | PRINT NAME/COMPANY | DATE/TIME | RECEIVED BY (Signature) | PRINT NAME/COMPANY |
|---|---|---|---|---|
| | V. DRAKE/ENGEO | 4/8/21-1210 | | CL |
| | CLS | 4/8/21-1620 | | |

**RECEIVED AT LAB BY:** Jes  **DATE/TIME:** 4/8/21 1620  **CONDITIONS/COMMENTS:** 4-8

**SHIPPED BY:** ☐ FED EX ☐ UPS ☑ OTHER CL  **AIR BILL #**

**CHAIN OF CUSTODY**  **CLS ID. NO.** ( of )

| | | |
|---|---|---|
| ENGEO-Lathrop | Project: Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: Jason Sedore | COC #: |

## Metals by EPA 6000/7000 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-1 (21D0499-01) Soil Sampled: 04/07/21 10:30 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **6.4** | 2.5 | " | " | " | " | " | " | |
| **S-5 (21D0499-06) Soil Sampled: 04/07/21 10:42 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **4.5** | 2.5 | " | " | " | " | " | " | |
| **S-9 (21D0499-11) Soil Sampled: 04/07/21 10:53 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **3.8** | 2.5 | " | " | " | " | " | " | |
| **S-13 (21D0499-16) Soil Sampled: 04/07/21 11:10 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **6.9** | 2.5 | " | " | " | " | " | " | |
| **S-17 (21D0499-21) Soil Sampled: 04/07/21 11:22 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **4.0** | 2.5 | " | " | " | " | " | " | |
| **S-21 (21D0499-26) Soil Sampled: 04/07/21 10:40 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **3.9** | 2.5 | " | " | " | " | " | " | |
| **S-25 (21D0499-31) Soil Sampled: 04/07/21 10:51 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **6.5** | 2.5 | " | " | " | " | " | " | |

| | | |
|---|---|---|
| ENGEO-Lathrop | Project: Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: Jason Sedore | COC #: |

## Metals by EPA 6000/7000 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-29 (21D0499-36) Soil Sampled: 04/07/21 11:15 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **4.2** | 2.5 | " | " | " | " | " | " | |
| **S-33 (21D0499-41) Soil Sampled: 04/07/21 11:28 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **7.8** | 2.5 | " | " | " | " | " | " | |
| **S-37 (21D0499-46) Soil Sampled: 04/07/21 11:31 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **13** | 2.5 | " | " | " | " | " | " | |
| **S-41 (21D0499-51) Soil Sampled: 04/07/21 11:42 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **5.6** | 2.5 | " | " | " | " | " | " | |
| **S-45 (21D0499-56) Soil Sampled: 04/07/21 11:55 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **4.5** | 2.5 | " | " | " | " | " | " | |
| **S-49 (21D0499-61) Soil Sampled: 04/07/21 11:46 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **4.5** | 2.5 | " | " | " | " | " | " | |
| **S-53 (21D0499-66) Soil Sampled: 04/07/21 11:50 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **2.6** | 2.5 | " | " | " | " | " | " | |

| | | |
|---|---|---|
| ENGEO-Lathrop | Project: Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: Jason Sedore | COC #: |

## Metals by EPA 6000/7000 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-57 (21D0499-71) Soil Sampled: 04/07/21 12:11 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102932 | 04/12/21 | 04/13/21 | EPA 6020 | |
| **Lead** | **3.6** | 2.5 | " | " | " | " | " | " | |
| **S-61 (21D0499-76) Soil Sampled: 04/07/21 12:20 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| Lead | ND | 2.5 | " | " | " | " | " | " | |
| **S-65 (21D0499-81) Soil Sampled: 04/07/21 12:33 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| Lead | ND | 2.5 | " | " | " | " | " | " | |
| **S-69 (21D0499-86) Soil Sampled: 04/07/21 12:52 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **5.9** | 2.5 | " | " | " | " | " | " | |
| **S-73 (21D0499-91) Soil Sampled: 04/07/21 12:09 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **2.9** | 2.5 | " | " | " | " | " | " | |
| **S-77 (21D0499-96) Soil Sampled: 04/07/21 12:15 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **2.6** | 2.5 | " | " | " | " | " | " | |
| **S-81 (21D0499-AB) Soil Sampled: 04/07/21 12:31 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| Lead | ND | 2.5 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Metals by EPA 6000/7000 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-85 (21D0499-AG) Soil Sampled: 04/07/21 12:00 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **5.2** | 2.5 | " | " | " | " | " | " | |
| **S-89 (21D0499-AL) Soil Sampled: 04/07/21 13:03 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **4.1** | 2.5 | " | " | " | " | " | " | |
| **S-93 (21D0499-AQ) Soil Sampled: 04/07/21 13:18 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **3.4** | 2.5 | " | " | " | " | " | " | |
| **S-97 (21D0499-AV) Soil Sampled: 04/07/21 13:35 Received: 04/08/21 18:12** | | | | | | | | | |
| Arsenic | ND | 2.0 | mg/kg | 10 | 2102933 | 04/12/21 | 04/12/21 | EPA 6020 | |
| **Lead** | **3.1** | 2.5 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-1-S-4 COMP (21D0499-05) Soil Sampled: 04/07/21 10:30 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *83 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *66 %* | *46-139* | | " | " | " | " | |
| **S-5-S-8 COMP (21D0499-10) Soil Sampled: 04/07/21 10:42 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-5-S-8 COMP (21D0499-10) Soil Sampled: 04/07/21 10:42 Received: 04/08/21 18:12** | | | | | | | | | |
| Chlordane-technical | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *84 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *58 %* | *46-139* | | " | " | " | " | |
| **S-9-S-12 COMP (21D0499-15) Soil Sampled: 04/07/21 10:53 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-9-S-12 COMP (21D0499-15) Soil Sampled: 04/07/21 10:53 Received: 04/08/21 18:12** | | | | | | | | | |
| Endrin | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *77 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *65 %* | *46-139* | | " | " | " | " | |
| **S-13-S-16 COMP (21D0499-20) Soil Sampled: 04/07/21 11:10 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-13-S-16 COMP (21D0499-20) Soil Sampled: 04/07/21 11:10 Received: 04/08/21 18:12** | | | | | | | | | |
| Mirex | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *75 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *58 %* | *46-139* | | " | " | " | " | |
| **S-17-S-20 COMP (21D0499-25) Soil Sampled: 04/07/21 10:31 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *78 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *69 %* | *46-139* | | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-21-S-24 COMP (21D0499-30) Soil Sampled: 04/07/21 10:40 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *92 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *78 %* | *46-139* | | " | " | " | " | |
| **S-25-S-28 COMP (21D0499-35) Soil Sampled: 04/07/21 10:51 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-25-S-28 COMP (21D0499-35) Soil Sampled: 04/07/21 10:51 Received: 04/08/21 18:12** | | | | | | | | | |
| Chlordane-technical | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *83 %* | | *52-141* | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *58 %* | | *46-139* | " | " | " | " | |
| **S-29-S-32 COMP (21D0499-40) Soil Sampled: 04/07/21 11:15 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-29-S-32 COMP (21D0499-40) Soil Sampled: 04/07/21 11:15 Received: 04/08/21 18:12** | | | | | | | | | |
| Endrin | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *86 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *65 %* | *46-139* | | " | " | " | " | |
| **S-33-S-36 COMP (21D0499-45) Soil Sampled: 04/07/21 11:28 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-33-S-36 COMP (21D0499-45) Soil Sampled: 04/07/21 11:28 Received: 04/08/21 18:12** | | | | | | | | | |
| Mirex | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *86 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *68 %* | *46-139* | | " | " | " | " | |
| **S-37-S-40 COMP (21D0499-50) Soil Sampled: 04/07/21 11:31 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *82 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *63 %* | *46-139* | | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-41-S-44 COMP (21D0499-55) Soil Sampled: 04/07/21 11:42 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *85 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *63 %* | *46-139* | | " | " | " | " | |
| **S-45-S-48 COMP (21D0499-60) Soil Sampled: 04/07/21 11:55 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-45-S-48 COMP (21D0499-60) Soil Sampled: 04/07/21 11:55 Received: 04/08/21 18:12** | | | | | | | | | |
| Chlordane-technical | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *84 %* | *52-141* | | *"* | *"* | *"* | *"* | |
| *Surrogate: Tetrachloro-meta-xylene* | | *59 %* | *46-139* | | *"* | *"* | *"* | *"* | |
| **S-49-S-52 COMP (21D0499-65) Soil Sampled: 04/07/21 11:46 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-49-S-52 COMP (21D0499-65) Soil Sampled: 04/07/21 11:46 Received: 04/08/21 18:12** | | | | | | | | | |
| Endrin | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *84 %* | | *52-141* | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *64 %* | | *46-139* | " | " | " | " | |
| **S-53-S-56 COMP (21D0499-70) Soil Sampled: 04/07/21 11:50 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-53-S-56 COMP (21D0499-70) Soil Sampled: 04/07/21 11:50 Received: 04/08/21 18:12** | | | | | | | | | |
| Mirex | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *82 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *68 %* | *46-139* | | " | " | " | " | |
| **S-57-S-60 COMP (21D0499-75) Soil Sampled: 04/07/21 12:11 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *88 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *57 %* | *46-139* | | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-61-S-64 COMP (21D0499-80) Soil Sampled: 04/07/21 12:20 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *87 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *70 %* | *46-139* | | " | " | " | " | |
| **S-65-S-68 COMP (21D0499-85) Soil Sampled: 04/07/21 12:33 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-65-S-68 COMP (21D0499-85) Soil Sampled: 04/07/21 12:33 Received: 04/08/21 18:12** | | | | | | | | | |
| Chlordane-technical | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *88 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *84 %* | *46-139* | | " | " | " | " | |
| **S-69-S-72 COMP (21D0499-90) Soil Sampled: 04/07/21 12:52 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |

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|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-69-S-72 COMP (21D0499-90) Soil Sampled: 04/07/21 12:52 Received: 04/08/21 18:12** | | | | | | | | | |
| Endrin | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *90 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *81 %* | *46-139* | | " | " | " | " | |
| **S-73-S-76 COMP (21D0499-95) Soil Sampled: 04/07/21 12:09 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-73-S-76 COMP (21D0499-95) Soil Sampled: 04/07/21 12:09 Received: 04/08/21 18:12** | | | | | | | | | |
| Mirex | ND | 3.3 | µg/kg | 1 | 2102968 | " | 04/14/21 | EPA 8081A | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *84 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *70 %* | *46-139* | | " | " | " | " | |
| **S-77-S-80 COMP (21D0499-AA) Soil Sampled: 04/07/21 12:15 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102968 | 04/12/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *91 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *80 %* | *46-139* | | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-81-S-84 COMP (21D0499-AF) Soil Sampled: 04/07/21 12:31 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102986 | 04/13/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *92 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *92 %* | *46-139* | | " | " | " | " | |
| **S-85-S-88 COMP (21D0499-AK) Soil Sampled: 04/07/21 12:50 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102986 | 04/13/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-85-S-88 COMP (21D0499-AK) Soil Sampled: 04/07/21 12:50 Received: 04/08/21 18:12** | | | | | | | | | |
| Chlordane-technical | ND | 3.3 | µg/kg | 1 | 2102986 | " | 04/14/21 | EPA 8081A | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *75 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *75 %* | *46-139* | | " | " | " | " | |
| **S-89-S-92 COMP (21D0499-AP) Soil Sampled: 04/07/21 13:03 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102986 | 04/13/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-89-S-92 COMP (21D0499-AP) Soil Sampled: 04/07/21 13:03 Received: 04/08/21 18:12** | | | | | | | | | |
| Endrin | ND | 3.3 | µg/kg | 1 | 2102986 | " | 04/14/21 | EPA 8081A | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *96 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *81 %* | *46-139* | | " | " | " | " | |
| **S-93-S-96 COMP (21D0499-AU) Soil Sampled: 04/07/21 13:18 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102986 | 04/13/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---|---|---|---|---|---|---|---|---|
| **S-93-S-96 COMP (21D0499-AU) Soil Sampled: 04/07/21 13:18 Received: 04/08/21 18:12** | | | | | | | | | |
| Mirex | ND | 3.3 | µg/kg | 1 | 2102986 | " | 04/14/21 | EPA 8081A | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *86 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *75 %* | *46-139* | | " | " | " | " | |
| **S-97-S-100 COMP (21D0499-AZ) Soil Sampled: 04/07/21 13:35 Received: 04/08/21 18:12** | | | | | | | | | |
| 4,4´-DDD | ND | 3.3 | µg/kg | 1 | 2102986 | 04/13/21 | 04/14/21 | EPA 8081A | |
| 4,4´-DDE | ND | 3.3 | " | " | " | " | " | " | |
| 4,4´-DDT | ND | 3.3 | " | " | " | " | " | " | |
| Aldrin | ND | 1.0 | " | " | " | " | " | " | |
| alpha-BHC | ND | 1.7 | " | " | " | " | " | " | |
| beta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Chlordane-technical | ND | 3.3 | " | " | " | " | " | " | |
| delta-BHC | ND | 1.7 | " | " | " | " | " | " | |
| Dieldrin | ND | 1.0 | " | " | " | " | " | " | |
| Endosulfan I | ND | 1.7 | " | " | " | " | " | " | |
| Endosulfan II | ND | 3.3 | " | " | " | " | " | " | |
| Endosulfan sulfate | ND | 3.3 | " | " | " | " | " | " | |
| Endrin | ND | 3.3 | " | " | " | " | " | " | |
| Endrin aldehyde | ND | 3.3 | " | " | " | " | " | " | |
| gamma-BHC (Lindane) | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor | ND | 1.7 | " | " | " | " | " | " | |
| Heptachlor epoxide | ND | 1.7 | " | " | " | " | " | " | |
| Methoxychlor | ND | 17 | " | " | " | " | " | " | |
| Mirex | ND | 3.3 | " | " | " | " | " | " | |
| Toxaphene | ND | 20 | " | " | " | " | " | " | |
| *Surrogate: Decachlorobiphenyl* | | *75 %* | *52-141* | | " | " | " | " | |
| *Surrogate: Tetrachloro-meta-xylene* | | *79 %* | *46-139* | | " | " | " | " | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Metals by EPA 6000/7000 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2102932 - EPA 3050B** | | | | | | | | | | |
| **Blank (2102932-BLK1)** | | | | Prepared: 04/12/21 Analyzed: 04/13/21 | | | | | | |
| Lead | ND | 0.25 | mg/kg | | | | | | | |
| Arsenic | ND | 0.20 | " | | | | | | | |
| **LCS (2102932-BS1)** | | | | Prepared: 04/12/21 Analyzed: 04/13/21 | | | | | | |
| Lead | 9.41 | 0.25 | mg/kg | 10.0 | | 94.1 | 75-125 | | | |
| Arsenic | 8.92 | 0.20 | " | 10.0 | | 89 | 75-125 | | | |
| **Matrix Spike (2102932-MS1)** | **Source: 21D0444-02** | | | Prepared: 04/12/21 Analyzed: 04/13/21 | | | | | | |
| Lead | 18.3 | 2.5 | mg/kg | 10.0 | 8.49 | 98.5 | 75-125 | | | |
| Arsenic | 11.4 | 2.0 | " | 10.0 | 2.52 | 88 | 75-125 | | | |
| **Batch 2102933 - EPA 3050B** | | | | | | | | | | |
| **Blank (2102933-BLK1)** | | | | Prepared & Analyzed: 04/12/21 | | | | | | |
| Lead | ND | 0.25 | mg/kg | | | | | | | |
| Arsenic | ND | 0.20 | " | | | | | | | |
| **LCS (2102933-BS1)** | | | | Prepared & Analyzed: 04/12/21 | | | | | | |
| Lead | 9.71 | 0.25 | mg/kg | 10.0 | | 97.1 | 75-125 | | | |
| Arsenic | 9.56 | 0.20 | " | 10.0 | | 96 | 75-125 | | | |
| **Matrix Spike (2102933-MS1)** | **Source: 21D0499-76** | | | Prepared & Analyzed: 04/12/21 | | | | | | |
| Lead | 12.6 | 2.5 | mg/kg | 10.0 | 1.96 | 107 | 75-125 | | | |
| Arsenic | 10.8 | 2.0 | " | 10.0 | 0.955 | 99 | 75-125 | | | |
| **Matrix Spike Dup (2102933-MSD1)** | **Source: 21D0499-76** | | | Prepared & Analyzed: 04/12/21 | | | | | | |
| Lead | 12.2 | 2.5 | mg/kg | 10.0 | 1.96 | 102 | 75-125 | 3.89 | 30 | |
| Arsenic | 10.6 | 2.0 | " | 10.0 | 0.955 | 96 | 75-125 | 2 | 30 | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2102968 - LUFT-DHS GCNV** | | | | | | | | | | |
| **Blank (2102968-BLK1)** | | | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | ND | 1.0 | µg/kg | | | | | | | |
| alpha-BHC | ND | 1.7 | " | | | | | | | |
| beta-BHC | ND | 1.7 | " | | | | | | | |
| gamma-BHC (Lindane) | ND | 1.7 | " | | | | | | | |
| delta-BHC | ND | 1.7 | " | | | | | | | |
| Chlordane-technical | ND | 3.3 | " | | | | | | | |
| 4,4´-DDD | ND | 3.3 | " | | | | | | | |
| 4,4´-DDE | ND | 3.3 | " | | | | | | | |
| 4,4´-DDT | ND | 3.3 | " | | | | | | | |
| Dieldrin | ND | 1.0 | " | | | | | | | |
| Endosulfan I | ND | 1.7 | " | | | | | | | |
| Endosulfan II | ND | 3.3 | " | | | | | | | |
| Endosulfan sulfate | ND | 3.3 | " | | | | | | | |
| Endrin | ND | 3.3 | " | | | | | | | |
| Endrin aldehyde | ND | 3.3 | " | | | | | | | |
| Heptachlor | ND | 1.7 | " | | | | | | | |
| Heptachlor epoxide | ND | 1.7 | " | | | | | | | |
| Methoxychlor | ND | 17 | " | | | | | | | |
| Mirex | ND | 3.3 | " | | | | | | | |
| Toxaphene | ND | 20 | " | | | | | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *5.65* | | *"* | *8.33* | | *68* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *7.48* | | *"* | *8.33* | | *90* | *52-141* | | | |
| **LCS (2102968-BS1)** | | | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 12.6 | 1.0 | µg/kg | 16.7 | | 76 | 47-132 | | | |
| gamma-BHC (Lindane) | 12.6 | 1.7 | " | 16.7 | | 75 | 56-133 | | | |
| 4,4´-DDT | 13.7 | 3.3 | " | 16.7 | | 82 | 46-137 | | | |
| Dieldrin | 15.0 | 1.0 | " | 16.7 | | 90 | 44-143 | | | |
| Endrin | 15.3 | 3.3 | " | 16.7 | | 92 | 30-147 | | | |
| Heptachlor | 12.0 | 1.7 | " | 16.7 | | 72 | 33-148 | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *5.26* | | *"* | *8.33* | | *63* | *46-139* | | | |

ENGEO-Lathrop
17278 Golden Valley Parkway
Lathrop, CA 95330

Project: Yosemite Square
Project Number: [none]
Project Manager: Jason Sedore

**CLS Work Order #: 21D0499**
COC #:

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2102968 - LUFT-DHS GCNV** | | | | | | | | | | |
| **LCS (2102968-BS1)** | | | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| *Surrogate: Decachlorobiphenyl* | *7.14* | | *µg/kg* | *8.33* | | *86* | *52-141* | | | |
| **LCS Dup (2102968-BSD1)** | | | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 13.8 | 1.0 | µg/kg | 16.7 | | 83 | 47-132 | 9 | 30 | |
| gamma-BHC (Lindane) | 13.6 | 1.7 | " | 16.7 | | 81 | 56-133 | 8 | 30 | |
| 4,4´-DDT | 15.0 | 3.3 | " | 16.7 | | 90 | 46-137 | 9 | 30 | |
| Dieldrin | 15.4 | 1.0 | " | 16.7 | | 92 | 44-143 | 3 | 30 | |
| Endrin | 16.7 | 3.3 | " | 16.7 | | 100 | 30-147 | 9 | 30 | |
| Heptachlor | 13.0 | 1.7 | " | 16.7 | | 78 | 33-148 | 8 | 30 | |
| *Surrogate: Tetrachloro-meta-xylene* | *7.09* | | *"* | *8.33* | | *85* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *8.87* | | *"* | *8.33* | | *106* | *52-141* | | | |
| **Matrix Spike (2102968-MS1)** | | **Source: 21D0499-05** | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 13.2 | 1.0 | µg/kg | 16.7 | ND | 79 | 47-138 | | | |
| gamma-BHC (Lindane) | 13.0 | 1.7 | " | 16.7 | ND | 78 | 38-144 | | | |
| 4,4´-DDT | 13.6 | 3.3 | " | 16.7 | ND | 82 | 41-157 | | | |
| Dieldrin | 14.7 | 1.0 | " | 16.7 | ND | 88 | 46-155 | | | |
| Endrin | 14.2 | 3.3 | " | 16.7 | ND | 85 | 34-149 | | | |
| Heptachlor | 12.3 | 1.7 | " | 16.7 | ND | 74 | 36-155 | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *14.6* | | *"* | *20.8* | | *70* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *17.1* | | *"* | *20.8* | | *82* | *52-141* | | | |
| **Matrix Spike Dup (2102968-MSD1)** | | **Source: 21D0499-05** | | Prepared: 04/12/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 11.0 | 1.0 | µg/kg | 16.7 | ND | 66 | 47-138 | 18 | 35 | |
| gamma-BHC (Lindane) | 10.9 | 1.7 | " | 16.7 | ND | 65 | 38-144 | 18 | 35 | |
| 4,4´-DDT | 11.1 | 3.3 | " | 16.7 | ND | 66 | 41-157 | 21 | 35 | |
| Dieldrin | 12.6 | 1.0 | " | 16.7 | ND | 75 | 46-155 | 16 | 35 | |
| Endrin | 11.5 | 3.3 | " | 16.7 | ND | 69 | 34-149 | 20 | 35 | |
| Heptachlor | 10.2 | 1.7 | " | 16.7 | ND | 61 | 36-155 | 18 | 35 | |
| *Surrogate: Tetrachloro-meta-xylene* | *13.0* | | *"* | *20.8* | | *62* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *14.7* | | *"* | *20.8* | | *71* | *52-141* | | | |

| | | |
|---|---|---|
| ENGEO-Lathrop | Project: Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2102986 - LUFT-DHS GCNV** | | | | | | | | | | |
| **Blank (2102986-BLK1)** | | | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | ND | 1.0 | µg/kg | | | | | | | |
| alpha-BHC | ND | 1.7 | " | | | | | | | |
| beta-BHC | ND | 1.7 | " | | | | | | | |
| gamma-BHC (Lindane) | ND | 1.7 | " | | | | | | | |
| delta-BHC | ND | 1.7 | " | | | | | | | |
| Chlordane-technical | ND | 3.3 | " | | | | | | | |
| 4,4´-DDD | ND | 3.3 | " | | | | | | | |
| 4,4´-DDE | ND | 3.3 | " | | | | | | | |
| 4,4´-DDT | ND | 3.3 | " | | | | | | | |
| Dieldrin | ND | 1.0 | " | | | | | | | |
| Endosulfan I | ND | 1.7 | " | | | | | | | |
| Endosulfan II | ND | 3.3 | " | | | | | | | |
| Endosulfan sulfate | ND | 3.3 | " | | | | | | | |
| Endrin | ND | 3.3 | " | | | | | | | |
| Endrin aldehyde | ND | 3.3 | " | | | | | | | |
| Heptachlor | ND | 1.7 | " | | | | | | | |
| Heptachlor epoxide | ND | 1.7 | " | | | | | | | |
| Methoxychlor | ND | 17 | " | | | | | | | |
| Mirex | ND | 3.3 | " | | | | | | | |
| Toxaphene | ND | 20 | " | | | | | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *6.33* | | *"* | *8.33* | | *76* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *8.91* | | *"* | *8.33* | | *107* | *52-141* | | | |
| **LCS (2102986-BS1)** | | | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 15.2 | 1.0 | µg/kg | 16.7 | | 91 | 47-132 | | | |
| gamma-BHC (Lindane) | 16.0 | 1.7 | " | 16.7 | | 96 | 56-133 | | | |
| 4,4´-DDT | 18.1 | 3.3 | " | 16.7 | | 109 | 46-137 | | | |
| Dieldrin | 16.2 | 1.0 | " | 16.7 | | 97 | 44-143 | | | |
| Endrin | 18.1 | 3.3 | " | 16.7 | | 108 | 30-147 | | | |
| Heptachlor | 15.5 | 1.7 | " | 16.7 | | 93 | 33-148 | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *6.88* | | *"* | *8.33* | | *83* | *46-139* | | | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Organochlorine Pesticides by EPA Method 8081A - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch 2102986 - LUFT-DHS GCNV** | | | | | | | | | | |
| **LCS (2102986-BS1)** | | | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| *Surrogate: Decachlorobiphenyl* | *8.28* | | *µg/kg* | *8.33* | | *99* | *52-141* | | | |
| **LCS Dup (2102986-BSD1)** | | | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 15.1 | 1.0 | µg/kg | 16.7 | | 90 | 47-132 | 0.7 | 30 | |
| gamma-BHC (Lindane) | 15.9 | 1.7 | " | 16.7 | | 96 | 56-133 | 0.6 | 30 | |
| 4,4´-DDT | 19.1 | 3.3 | " | 16.7 | | 115 | 46-137 | 5 | 30 | |
| Dieldrin | 16.5 | 1.0 | " | 16.7 | | 99 | 44-143 | 2 | 30 | |
| Endrin | 18.6 | 3.3 | " | 16.7 | | 112 | 30-147 | 3 | 30 | |
| Heptachlor | 14.5 | 1.7 | " | 16.7 | | 87 | 33-148 | 7 | 30 | |
| *Surrogate: Tetrachloro-meta-xylene* | *6.80* | | *"* | *8.33* | | *82* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *8.59* | | *"* | *8.33* | | *103* | *52-141* | | | |
| **Matrix Spike (2102986-MS1)** | | **Source: 21D0444-05** | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 13.7 | 1.0 | µg/kg | 16.7 | ND | 82 | 47-138 | | | |
| gamma-BHC (Lindane) | 14.6 | 1.7 | " | 16.7 | ND | 88 | 38-144 | | | |
| 4,4´-DDT | 16.8 | 3.3 | " | 16.7 | ND | 101 | 41-157 | | | |
| Dieldrin | 15.4 | 1.0 | " | 16.7 | ND | 92 | 46-155 | | | |
| Endrin | 17.0 | 3.3 | " | 16.7 | ND | 102 | 34-149 | | | |
| Heptachlor | 12.6 | 1.7 | " | 16.7 | ND | 76 | 36-155 | | | |
| *Surrogate: Tetrachloro-meta-xylene* | *13.6* | | *"* | *20.8* | | *65* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *17.5* | | *"* | *20.8* | | *84* | *52-141* | | | |
| **Matrix Spike Dup (2102986-MSD1)** | | **Source: 21D0444-05** | | Prepared: 04/13/21 Analyzed: 04/14/21 | | | | | | |
| Aldrin | 12.9 | 1.0 | µg/kg | 16.7 | ND | 78 | 47-138 | 6 | 35 | |
| gamma-BHC (Lindane) | 13.8 | 1.7 | " | 16.7 | ND | 83 | 38-144 | 6 | 35 | |
| 4,4´-DDT | 14.8 | 3.3 | " | 16.7 | ND | 89 | 41-157 | 12 | 35 | |
| Dieldrin | 13.9 | 1.0 | " | 16.7 | ND | 83 | 46-155 | 10 | 35 | |
| Endrin | 15.3 | 3.3 | " | 16.7 | ND | 92 | 34-149 | 10 | 35 | |
| Heptachlor | 12.0 | 1.7 | " | 16.7 | ND | 72 | 36-155 | 5 | 35 | |
| *Surrogate: Tetrachloro-meta-xylene* | *12.0* | | *"* | *20.8* | | *58* | *46-139* | | | |
| *Surrogate: Decachlorobiphenyl* | *14.3* | | *"* | *20.8* | | *69* | *52-141* | | | |

| | | | |
|---|---|---|---|
| ENGEO-Lathrop | Project: | Yosemite Square | |
| 17278 Golden Valley Parkway | Project Number: | [none] | **CLS Work Order #: 21D0499** |
| Lathrop, CA 95330 | Project Manager: | Jason Sedore | COC #: |

## Notes and Definitions

| | |
|---|---|
| DET | Analyte DETECTED |
| ND | Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified) |
| NR | Not Reported |
| dry | Sample results reported on a dry weight basis |
| RPD | Relative Percent Difference |

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# APPENDIX G

## QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

## JEFFREY ADAMS, PHD, PE
### Principal Engineer

### EDUCATION

BS, Civil Engineering, University of Illinois at Chicago, 1994

MS, Civil Engineering, University of Illinois at Chicago, 1996

PhD, Civil Engineering, University of Illinois at Chicago, 1999

MBA, Concentration in Real Estate and Finance, University of Washington, 2004

### EXPERIENCE

Years with ENGEO: 17

### REGISTRATIONS & CERTIFICATIONS

Professional Engineer, CA, 69633

Environmental Manager, NV, 2150

40 Hour HAZWOPER Training, CA, 12100257636

### SPECIALIZATIONS

- Environmental & Stormwater Permitting
- Environmental Assessments and Remediation
- Environmental Restoration
- Geologic Hazard Abatement Districts (GHADs)
- Groundwater Modeling
- MS Project

Jeff joined ENGEO in 1999 and is a Principal Engineer directing environmental assessment, characterization, and remediation projects, geotechnical field reconnaissance and explorations, and engineering design and analyses. Jeff has provided financial analyses on real estate development projects as well as project cost-benefit analyses. He also is heavily involved in our Entitlement and Permitting Support services as well as our programs for Geologic Hazard Abatement Districts.

Jeff has performed numerous Phase I and II Environmental Site Assessments and site characterizations, as well as a number of analyses and studies utilizing federal, state, and local directives. He specializes in Brownfield redevelopment projects requiring integrated solutions for the mitigation of geotechnical and environmental hazards. Jeff is experienced in developing financial models, cash flow projections and budgets for a variety of projects requiring innovative financial solutions.

### Select Project Experience

**Foster City Civic Center—Foster City, CA**
*Group Leader, Assistant Project Manager*. Jeff provided technical oversight for phase one environmental site assessment for the Foster City Civic Center site and environmental characterization operations for the site, which was suspected of having been affected by unauthorized petroleum hydrocarbon releases within the subsurface. Following the completion of a soil gas survey, Jeff and team demonstrated that vapor intrusion mitigation systems were not necessary for proposed development, providing a significant cost savings to the project. The project consists of a multi-use urban infill development.

**Alameda Landing—Alameda, CA**
*Group Leader, Project Manager*. Jeff managed the completion of a phase one environmental site assessment for the Alameda Landing site. He also directed recent environmental characterization operations for the site, which was suspected of having been affected by naturally-occurring methane deposits within the subsurface. Working closely with innovative protocols, Jeff was able to demonstrate to regulatory oversight officials that expensive vapor intrusion mitigation systems were not necessary for proposed residential structures, potentially saving millions of dollars to the site developer. The project consists of a multi-phased single-family and multi-family residential housing development.

**1000 Howe Road—Martinez, CA**
*Project Engineer*. Jeff provided a phase-one environmental site assessment for the project. In addition, he provided a preliminary geotechnical report for this property that has been used as a trucking company's storage yard. The project is a residential development that consists of single- and multiple-story detached residential units.

**Jefferson Street Development—Oakland, CA**
*Project Manager*. Jeff served as Project Manager. He provided comprehensive environmental and geotechnical consultation services for a Brownfields redevelopment project in downtown Oakland. The project included several challenges, including limited site access due to onsite business activities, environmental impact related to previous site use, and the presence of several adjacent mid-rise structures. Jeff developed cost effective remedial value engineering solutions to mitigate the presence of geotechnically and environmentally-constraining subsurface solutions. Jeff worked with the design team to establish cost-effective retaining wall and foundation systems, designed and observed a subsurface environmental mitigation program, and assisted in the design of a structure wide vapor barrier. The project, serving as a cornerstone of the revitalization of downtown Oakland, is an excellent example of Jeff's proficiency in delivering cost effective solutions to facilitate Brownfields redevelopment. The project consists of a multi-story residential condominium structure.

**San Ramon Village Plaza—Dublin, CA**
*Project Manager*. Jeff served as Project Engineer. He contributed to an environmental peer review of previous land uses, which included a former dry cleaner. Further investigation identified impact due to former site operations. Jeff assisted in a remediation program, closely collaborating with other consultants representing differed parties of the property transaction. The site was efficiently remediated, allowing for redevelopment. The project consists of a high-density residential development within the 4.68-acre mixed-use San Ramon Village Plaza site. The project consists of a high-density residential development within the 4.68-acre mixed-use San Ramon Village Plaza site.

**Los Banos Airport—Los Banos, CA**
*Project Engineer*. Jeff provided a Phase I Environmental Site Assessment and a Conceptual Soil Remediation Work Plan as part of a multi-phase development. In addition to the Phase I Environmental Site Assessment he provided a soil and groundwater characterization program. The Los Banos Airport project measures approximately 112 acres in area.

**Questa @ Neighborhood H - Mountain House—Mountain House, CA**
*Project Manager*. Jeff served as project manager. He assisted in the preparation a phase one environmental site assessment in fall 2010. Under Jeff's leadership, the project team was able to effectively navigate through the complex historic records and ownership legacy associated with the property. The report that satisfied the demands and deadline of both the ownership entity and the financial institutions associated with the property. ENGEO performed a phase I environmental site assessment on the finished lots within Questa @ Neighborhood H of the Mountain House project.

**Lockheed Martin Storm Water Pond No 4—Sunnyvale, CA**
Project Manager. Jeff provided permitting consultation services, including the federal and state permitting required for the maintenance of a stormwater detention system. Jeff has also provided geotechnical and environmental support to evaluate the geotechnical conditions of the site. He also determined the absence of environmentally impacted materials within the site area. The site consists of a stormwater detention basin measuring approximately 4.5 acres in area and located adjacent to sensitive habitat.

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Expect Excellence

# APPENDIX E

## WATER SUPPLY ASSESSMENT

DRAFT | APRIL 2022

# Yosemite Square
# Water Supply Assessment

**PREPARED FOR**

City of Manteca

**PREPARED BY**

WEST YOST
Water. Engineered.

# Yosemite Square
# Water Supply Assessment

**Prepared for**

## City of Manteca

**Project No. 704-60-21-15**

DRAFT

Project Manager: Roger Chu, PE _____ Date _____

QA/QC Review: Elizabeth T. Drayer, PE _____ Date _____

WEST YOST
Water. Engineered.

DRAFT | APRIL 2022

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## LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|---|---|
| AF | Acre-Feet |
| AFY | Acre-feet Per Year |
| AMI | Advanced Metering Infrastructure |
| CASGEM | California Statewide Groundwater Elevation Monitoring |
| CEQA | California Environmental Quality Act |
| CIMIS | California Irrigation Management Information Service |
| City | City of Manteca |
| DU | Dwelling Unit |
| DWR | Department of Water Resources |
| EIR | Environmental Impact Report |
| ESJ | Eastern San Joaquin |
| ESJGB-GMP | Eastern San Joaquin Groundwater Basin Management Plan |
| ETo | Evapotranspiration |
| GPCD | Gallons Per Capita Per Day |
| gpd | Gallons Per Day |
| GSA | Groundwater Sustainability Agency |
| GSP | Groundwater Sustainability Plan |
| HDR | High Density Residential |
| LDR | Low Density Residential |
| MDR | Medium Density Residential |
| MUSD | Manteca Unified School District |
| NOAA | National Oceanic and Atmospheric Administration |
| OID | Oakdale Irrigation District |
| Proposed Project | Yosemite Square Development Project |
| SB 610 | California Senate Bill 610 |
| SB 221 | California Senate Bill 221 |
| SB X7-7 | California Senate Bill X7-7 Water Conservation Act of 2009 |
| SCWSP | South County Water Supply Program |
| SGMA | Sustainable Groundwater Management Act |
| SOI | Sphere of Influence |
| SSJID | South San Joaquin Irrigation District |
| SWRCB | State Water Resources Control Board |
| UAFW | Unaccounted-For Water |
| UWMP | Urban Water Management Plan |
| WSA | Water Supply Assessment |
| WTP | Nick C. DeGroot Water Treatment Plant |

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# EXECUTIVE SUMMARY

The proposed Yosemite Square development project (Proposed Project), if approved, would be constructed within the General Plan boundary of the City of Manteca (City). The purpose of this Water Supply Assessment (WSA) is to perform the evaluation required by Water Code sections 10910 through 10915 in connection with the Proposed Project. This WSA is not intended to reserve water, or to function as a "will serve" letter or any other form of commitment to supply water (see Water Code section 10914). The provision of water service will continue to be undertaken in a manner consistent with applicable City policies and procedures, consistent with existing law.

This WSA includes discussion of the projected water demands of the Proposed Project (Section 2), determinations required under applicable regulations (Section 3), the City's water service area (Section 4), the City's projected water demands through the year 2045 (Section 5), and the City's projected water supply sources and reliability through the year 2045 (Section 6). This WSA also documents the plan to ensure that sufficient water supplies will be available to serve the Proposed Project and the other planned development in the City's water service area through the planning period (Section 7). Finally, the water supply assessment approval process (Section 8) is discussed.

The projected potable water demand and supplies documented in this WSA are based on several available documents, including the City's 2015 Urban Water Management Plan (2015 UWMP), the Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan (2019), the South San Joaquin Irrigation District 2020 UWMP (2020), and the draft City of Manteca General Plan Update (2021). Water Code section 10910(c)(4) states that:

> *"…the water supply assessment for the project shall include a discussion with regard to whether the total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses."*

Based on the technical analyses described in this WSA, the total projected water supplies documented to be available for the Proposed Project during Normal, Single Dry and Multiple Dry water years during a 20-year projection are sufficient to meet the projected water demands associated with the Proposed Project, in addition to existing and planned future uses. Documentation of the availability of this water to be allocated to the Proposed Project is provided in this WSA. This analysis has determined that the City's total projected water supplies will meet the above requirement from Water Code section 10910(c)(4), as documented in this WSA.

The following are three major findings that resulted from this effort:

- The projected water demand at buildout of the Proposed Project is approximately 373.5 acre-feet per year (AFY).
- Water demand within the City's service area is not expected to exceed the City's supplies in any normal year between 2020 and 2045.
- During Single Dry Years, and Multiple Dry Years, the City's total annual water demand is not expected to exceed the City's water supplies from 2020 to 2045.

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Senate Bill 221 (SB 221) applies to residential subdivisions of over 500 dwelling units (DUs) and requires that the water supplier provide a written verification that the water supply for the project is sufficient, prior to issuance of the final permits. Because the Proposed Project includes 814 DUs, it is subject to the requirements of SB 221 (Government Code section 66473.7) and a verification of sufficient water supply (SB 221) report will be required prior to final approvals.

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# 1.0 INTRODUCTION

The Proposed Project, if approved, would be constructed in the southeast portion of the City of Manteca General Plan boundary. The purpose of this WSA is to perform the evaluation required by Water Code sections 10910 through 10915 in connection with the Proposed Project. Key topics covered in this introduction include:

- Legal Requirements for the WSA
- Need for and Purpose of WSA
- Water Supply Assessment Preparation, Format and Organization

## 1.1 Legal Requirements for the Water Supply Assessment

California Senate Bill 610 (SB 610) and Senate Bill 221 (SB 221) amended state law, effective January 1, 2002, to improve the link between information on water supply availability and certain land use decisions made by cities and counties. SB 610 and SB 221 were companion measures that sought to promote more collaborative planning between local water suppliers and cities and counties. Both statutes require that detailed information regarding water availability be provided to the city and county decision-makers prior to approval of large development projects. The purpose of providing such information is to ensure that prudent water supply planning has been conducted, and that planned water supplies are adequate to meet existing demands, anticipated demands from approved projects, and the demands of proposed projects.

SB 610 amended California Water Code sections 10910 through 10915 to require agencies responsible for land use decisions:

- To identify the public water purveyor(s) that may supply water for a proposed development project; and
- To request a WSA from the identified water purveyor(s).

The City is the identified water purveyor for the Proposed Project. The purpose of the WSA is to demonstrate the sufficiency of the purveyor's water supplies to satisfy the water demands of the Proposed Project, while still meeting the water purveyor's obligations with regard to existing and planned future uses. Water Code sections 10910 through 10915 delineate the specific information that must be included in the WSA.

SB 221 amended State law (California Government Code section 66473.7) to require that approval by a city or county of certain residential subdivisions[1] requires an affirmative written verification of sufficient water supply. SB 221 was intended as a fail-safe mechanism to ensure that collaboration on finding the needed water supplies to serve a new large residential subdivision occurs before construction begins.

[1] Per Government Code Section 66473.7(a)(1) subdivision means a proposed residential development of more than 500 dwelling units.

## 1.2 Need for and Purpose of Water Supply Assessment

The purpose of this WSA is to perform the evaluation required by Water Code Sections 10910 through 10915 (SB 610) in connection with the Proposed Project. This WSA is not intended to reserve water, or to function as a "will serve" letter or any other form of commitment to supply water (see Water Code section 10914), nor is it intended to meet the requirements of SB 221. The provision of water service will continue to be undertaken in a manner consistent with applicable City policies and procedures, consistent with existing law.

## 1.3 Water Supply Assessment Preparation, Format and Organization

The format of this WSA is intended to clearly delineate compliance with the specific requirements for a WSA, per Water Code sections 10910 through 10915. This WSA includes the following sections:

- Section 1: Introduction
- Section 2: Description of Proposed Project
- Section 3: Required SB 610 Determinations
- Section 4: City of Manteca Water Service Area
- Section 5: City of Manteca Water Demands
- Section 6: City of Manteca Water Supplies
- Section 7: Determination of Water Supply Sufficiency Based on the Requirements of SB 610
- Section 8: Water Supply Assessment Approval Process
- Section 9: References

Relevant citations of Water Code sections 10910 through 10915 are included throughout this WSA to demonstrate compliance with the specific requirements of SB 610.

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# 2.0 DESCRIPTION OF PROPOSED PROJECT

A general description of the Proposed Project location, proposed land uses, projected water demand, and proposed water supply is provided below.

## 2.1 Proposed Project Location

The Proposed Project site is located in the southeastern portion of the City of Manteca directly adjacent to City limits. The Project site is immediately east of the State Route 99 and 120 Interchange. The Project site is bounded on the east by Austin Road and on the west by the State Route 99 and 120 Interchange. The location of the Proposed Project in relation to the current City limits and Manteca General Plan boundary is shown on Figure 2-1.

## 2.2 Proposed Land Uses

The Project site is 137.5 acres. Land uses for the Proposed Project are summarized in Table 2-1, and the location of these land uses is shown on Figure 2-2.

**Table 2-1. Proposed Land Uses for the Proposed Project**

| Proposed Land Use | Approximate Area, acres | Average Dwelling Units per Acre | Number of Dwelling Units |
|---|---|---|---|
| Medium Density Residential | 25.2 | 8.7 | 220 |
| Medium Density Residential | 28.3 | 8.2 | 231 |
| Low Density Residential | 37.0 | 6.8 | 250 |
| Low Density Residential | 10.7 | 5.9 | 63 |
| Low Density Residential | 9.6 | 5.2 | 50 |
| Park[(a)] | 9.8 | - | - |
| Backbone Road | 11.4 | - | - |
| Other[(b)] | 5.6 | - | - |
| **Total** | **137.5** | **-** | **814** |

*Source: NorthStar Engineering Group, Inc. Yosemite Square Draft Vesting Tentative Subdivision Map, received April 2022.*

(a) Also includes Phase 1 (1.6 acres) and Phase 2 (0.5 acres) landscaping.

(b) Includes Phase 1 Domestic Well (0.5 acres) and Phase 1 (3.2 acres) and Phase 2 (1.9 acres) Caltrans right-of-way.

The development area is designated as Low Density Residential (LDR), Medium Density Residential (MDR), and High Density Residential (HDR) with a Park designation under the current General Plan. The Draft General Plan Update currently being prepared by the City shows the same land use designation for this area when compared to the existing General Plan.

## 2.3 Adjusted City Water Demand Factors

Unit water use factors for projecting water demand based on the proposed future land uses within the City's General Plan were developed as part of the City of Manteca 2005 Water Master Plan. These unit water use factors assume a per capita water use of approximately 225 gallons per capita per day (GPCD) and do not account for conservation goals, water recycling and other possible conservation-derived

sources. In the City's 2015 Urban Water Management Plan (UWMP), water demand projections assume that the City is able to meet its SB X7-7 (Water Conservation Act of 2009) 2020 per capita water use target of 179 GPCD. Therefore, to reflect the City's 2020 conservation goals, residential water use factors were reduced by 20 percent, corresponding to the overall per capita water use reduction from 225 GPCD to 179 GPCD. The water use factor for Park land use was reduced by 10 percent to correspond with the climate data discussed in Section 4 of this WSA.

The unit water use factors for the land use designations applicable to the Proposed Project are summarized in Table 2-2.

**Table 2-2. Water Use Factors by Land Use Type**

| Land Use Designation | Water Use Factor, gpd per acre | |
|---|---|---|
| | 2005 Water Master Plan[(a)] | Adjusted for SB X7-7[(b)] |
| Low Density Residential | 2,800 | 2,240 |
| Medium Density Residential | 3,500 | 2,800 |
| Park | 4,000 | 3,600 |

(a) Based on unit water demand factors established in the City of Manteca 2005 Water Master Plan. These factors assume a per capita water use of approximately 225 GPCD and do not account for conservation measures.

(b) Based on a 20 percent reduction (10 percent reduction for Park land use) of factors shown in the City of Manteca 2005 Water Master Plan. These factors assume that the City is able to meet its 2020 per capita water use target of 179 GPCD.

gpd = gallons per day

Potable water losses documented in the City's 2015 UWMP were calculated using a historical loss estimate of 12 percent of potable demands. It is anticipated that the implementation of advanced metering infrastructure (AMI) by 2018 will reduce losses to 8 percent by 2020, 7 percent by 2025, 6 percent by 2030, and 5 percent thereafter. Because the Proposed Project is anticipated to have AMI, this WSA assumes that unaccounted-for water (UAFW) will be 6 percent of the Project's potable demands.

## 2.4 Projected Buildout Water Demand of Proposed Project

Based on the water use factors shown in Table 2-2 and a UAFW of 6 percent, the projected water demand at buildout of the Proposed Project is approximately 373.5 AFY, as shown in Table 2-3.

The Proposed Project does not intend to use recycled water at this time. The City currently uses undisinfected secondary effluent to irrigate fodder crops in the land adjacent to the City's wastewater treatment plant. Tertiary treated recycled water is used for dust control at construction sites and for irrigation at the Great Wolf Lodge. Although a Recycled Water Master Plan is being prepared with the intent that the City would use recycled water to offset potable water demands for outdoor uses in the future, recycled water infrastructure is not planned to be constructed in time to serve the buildout of the Proposed Project. Therefore, recycled water supplies are not assumed for use at the Proposed Project in this WSA.

**Table 2-3. Projected Water Demand for Buildout of the Proposed Project**

| Land Use Designation | Gross Area, acres | Dwelling Units | Water Use Factor | | Potable Water Demand, AFY |
|---|---|---|---|---|---|
| Medium Density Residential | 25.2 | 220 | 321[(a)] | gpd/DU | 79.0 |
| Medium Density Residential | 28.3 | 231 | 343[(b)] | gpd/DU | 88.8 |
| Low Density Residential | 37.0 | 250 | 332[(c)] | gpd/DU | 92.8 |
| Low Density Residential | 10.7 | 63 | 380[(d)] | gpd/DU | 26.8 |
| Low Density Residential | 9.6 | 50 | 430[(e)] | gpd/DU | 24.1 |
| Park | 9.8 | - | 3,600 | gpd/acre | 39.5 |
| Backbone Road | 11.4 | - | - | - | - |
| Other | 5.6 | - | - | - | - |
| **Subtotal** | **137.5** | **814** | **-** | **-** | **351.1** |
| | | | | UAFW[(f)] | 22.4 |
| | | | | **Total Demand** | **373.5** |

(a) Based on MDR water use factor of 2,800 gpd/acre and an average density of 8.7 du/acre.
(b) Based on MDR water use factor of 2,800 gpd/acre and an average density of 8.2 du/acre.
(c) Based on LDR water use factor of 2,240 gpd/acre and an average density of 6.8 du/acre.
(d) Based on LDR water use factor of 2,240 gpd/acre and an average density of 5.9 du/acre.
(e) Based on LDR water use factor of 2,240 gpd/acre and an average density of 5.2 du/acre.
(f) Based on 6 percent of Project water demands.

## 2.5 Projected Water Supply for Proposed Project

Water demands for the Proposed Project will be served using the City's existing and future portfolio of water supplies. The inclusion of existing and planned future supplies is specifically allowed by the Water Code:

> *Water Code section 10631(b): Identify and quantify, to the extent practicable, the existing and planned sources of water available to the supplier over the same five-year increments described in subdivision (a).*

Proponents of the Proposed Project will provide their proportionate share of required funding to the City for the acquisition and delivery of treated potable water supplies to the Proposed Project area. Figure 2-1 shows the Proposed Project vicinity, and Figure 2-2 shows the proposed land use.

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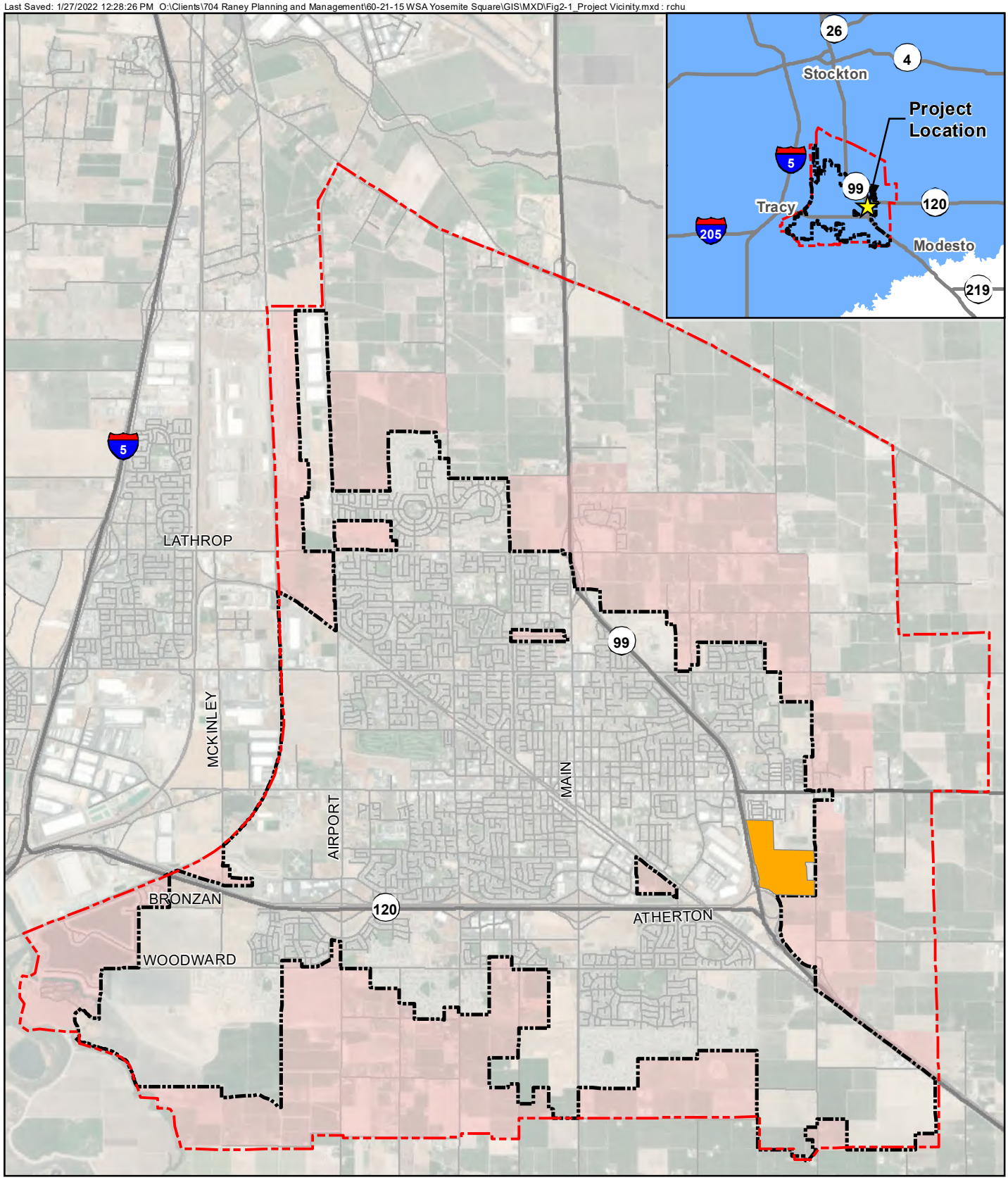


**Symbology**

- Project Area
- City Limit
- Sphere of Influence
- General Plan Boundary
- San Joaquin County

N

0 3,000 6,000

Scale in Feet

WEST YOST

**Figure 2-1**

**Proposed Project Vicinity**

City of Manteca
Water Supply Assessment
for Yosemite Square

Source: NorthStar Engineering Group, Inc. Yosemite Square Draft Vesting Tentative Subdivision Map, received April 2022.

**Figure 2-2**

**Conceptual Land Use Plan**

City of Manteca
Water Supply Assessment
for Yosemite Square

# 3.0 REQUIRED SB 610 DETERMINATIONS

The following determinations must be made, pursuant to SB 610.

## 3.1 Does SB 610 Apply to the Proposed Project?

Water Code sections 10910 and 10912 state:

> *10910 (a) Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) under Section 21080 of the Public Resources Code shall comply with this part.*
>
> *10912 (a) "Project" means any of the following:*
>
> *(1) A proposed residential development of more than 500 dwelling units.*
>
> *(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.*
>
> *(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.*
>
> *(4) A proposed hotel or motel, or both, having more than 500 rooms.*
>
> *(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.*
>
> *(6) A mixed-use project that includes one or more of the projects specified in this subdivision.*
>
> *(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project.*

Based on the following assumptions, SB 610 does apply to the Proposed Project.

- The Proposed Project is subject to California Environmental Quality Act (CEQA) and an Environmental Impact Report (EIR) is required.
- The Proposed Project, with its proposed 814 residential DUs meets the definition of a "Project" as specified in Water Code section 10912(a) paragraph (1) as defined for residential development (see above).

The Proposed Project has not been the subject of a previously adopted WSA and has not been included in an adopted WSA for a larger project. Therefore, according to Water Code section 10910(a), a WSA is required for the Proposed Project. The Proposed Project is included in the City of Manteca General Plan Water Supply Report, attached as Appendix A to this WSA.

## 3.2 Does SB 221 Apply to the Proposed Project?

In 2001, SB 221 amended State law to require that approval by a city or county of certain residential subdivisions requires an affirmative written verification of sufficient water supply. Per California Government Code section 66473.7(a)(1), a subdivision means a proposed residential development of more than 500 DUs. The Proposed Project, with its proposed 814 residential DUs, is therefore subject to the requirements of SB 221. A verification of sufficient water supply (SB 221) report will be required prior to final approvals.

## 3.3 Who is the Identified Public Water System?

Water Code sections 10910 and 10912 states:

> *10910(b) The city or county, at the time that it determines whether an environmental impact report, a negative declaration, or a mitigated negative declaration is required for any project subject to the California Environmental Quality Act pursuant to Section 21080.1 of the Public Resources Code, shall identify any water system that is, or may become as a result of supplying water to the project identified pursuant to this subdivision, a public water system, as defined by Section 10912, that may supply water for the project.*
>
> *10912 (c) "Public water system" means a system for the provision of piped water to the public for human consumption that has 3,000 or more service connections…*

The Proposed Project area is within the City's Sphere of Influence (SOI). Therefore, the City is the identified public water system for the Proposed Project.

## 3.4 Does the City have an adopted UWMP and does the UWMP include the projected water demand for the Proposed Project?

Water Code section 10910 states:

> *10910(c)(1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).*

The City's 2015 UWMP is incorporated by reference into this WSA. The City's existing potable and raw water demand is 16,253 AFY,[2] which may be greater than normal due to stay-at-home orders and mandated closure of non-essential businesses in response to the pandemic. West Yost estimated the City's projected water demand for the future land use areas of the General Plan Update.

According to the General Plan Update, the Proposed Project is located within the City's SOI. The Proposed Project is included in the General Plan Water Supply Report demand projections.

The City's ability to meet the projected water demands for the Proposed Project is described in Section 7 of this WSA.

[2] Provided by City in July 2021.

# 4.0 CITY OF MANTECA WATER SERVICE AREA

This section presents the City's water service area including history and growth information for the City.

## 4.1 City of Manteca Water Service Area

The City is located in the flat plain at the northern end of California's San Joaquin Valley in south San Joaquin County. The City is located approximately 10 miles south of Stockton and 15 miles north of Modesto. Rich agricultural lands abut Manteca on the north, east, and south, while areas to the west are used primarily for industry. The Southern Pacific Railroad cuts the City diagonally from southeast to northwest. State Highway 120 crosses the southern portion of the City and provides a connection between Interstate 5, located about four miles to the west of the City, and Highway 99 along the eastern boundary of the City. This location creates a good setting for Bay Area commuter housing, as well as new commercial and industrial locations.

The City's water service planning area corresponds with the City SOI established in the City's 2023 General Plan. The 2023 General Plan includes a designation of area planned to be developed by 2023. The City's current water distribution service area coincides with the City limits. It is assumed that the City's water distribution system will extend to areas within the SOI beyond the existing City limits as those areas are approved for development and annexed into the City.

Presently, the City limits encompass an area of about 13,746 acres. The total existing developed land is made up of approximately 64 percent residential land uses, 18 percent commercial, industrial, and institutional land uses, and 18 percent agriculture, parks, landscape, and other land uses. Water demands not served by the City (e.g., agriculture, schools) rely on private groundwater wells and the South San Joaquin Irrigation District (SSJID) groundwater for their supply.

## 4.2 Current and Projected Population

Between 1980 and 2020 the City experienced an average annual population growth rate of 3.1 percent, from 24,925 persons in 1980 to 84,800 persons in 2020. During this period, peak population growth occurred between 1980 and 1990 with an average growth rate of over 5 percent. Recent population growth since 2010 has averaged about 2.4 percent per year.

By comparison, the City's boundary area has grown from about 6,300 acres in 1990 to about 13,400 acres in 2015, an annual average area growth rate of about 3.1 percent. The greatest growth in area occurred between 1990 and 2000. Since 2000, the City's area has grown about 1.8 percent per year.

For purposes of this WSA, the City elected to use the 1980-2020 average annual population growth rate of 3.1 percent to project the population of the water service area through 2045. It is assumed that this population growth includes population acquired through City annexations of the surrounding area, as well as City infill development. The current and projected water service area populations for the City are summarized in Table 4-1. According to California Department of Finance, the City's population in 2020 was 84,800.[3]

[3] California Department of Finance. Cities, Counties, and the State Population Estimates with Annual Percent Change. January 2021

| Table 4-1. Historical and Projected Population for City of Manteca Water Service Area | |
|---|---|
| Calendar Year | Estimated Population[(a)] |
| 2020 | 84,800 |
| 2025 | 98,833 |
| 2030 | 115,187 |
| 2035 | 134,248 |
| 2040 | 156,463 |
| 2045 | 182,354 |

(a) 2020 population per California Department of Finance. 2025-2045 population projected at the 1980-2020 average annual growth rate of 3.1 percent.

## 4.3 Climate

Climate and precipitation information are described in the City's 2015 UWMP. The City experiences hot summer temperatures, with many days over 100°F during July and August. Nighttime temperatures during July and August drop into the fifties. The winter temperatures are much colder, with highs in the forties and fifties and lows are in the thirties and forties. Overnight freezes are infrequent. Spring and fall provide moderate temperature ranges. The mean annual precipitation is 14 inches.

Monthly climate data is provided in Figure 4-1. The evapotranspiration (ETo) data in Figure 4-1 was obtained from the California Irrigation Management Information Service (CIMIS) for Station 70-Manteca in the San Joaquin Region. Rainfall and temperature data were obtained by City staff from the National Oceanic and Atmospheric Administration (NOAA) website.

As indicated by the data in Figure 4-1, a greater quantity of water is evaporated during May through August in correlation to high temperatures and low humidity, which results in high water demand for landscape irrigation.

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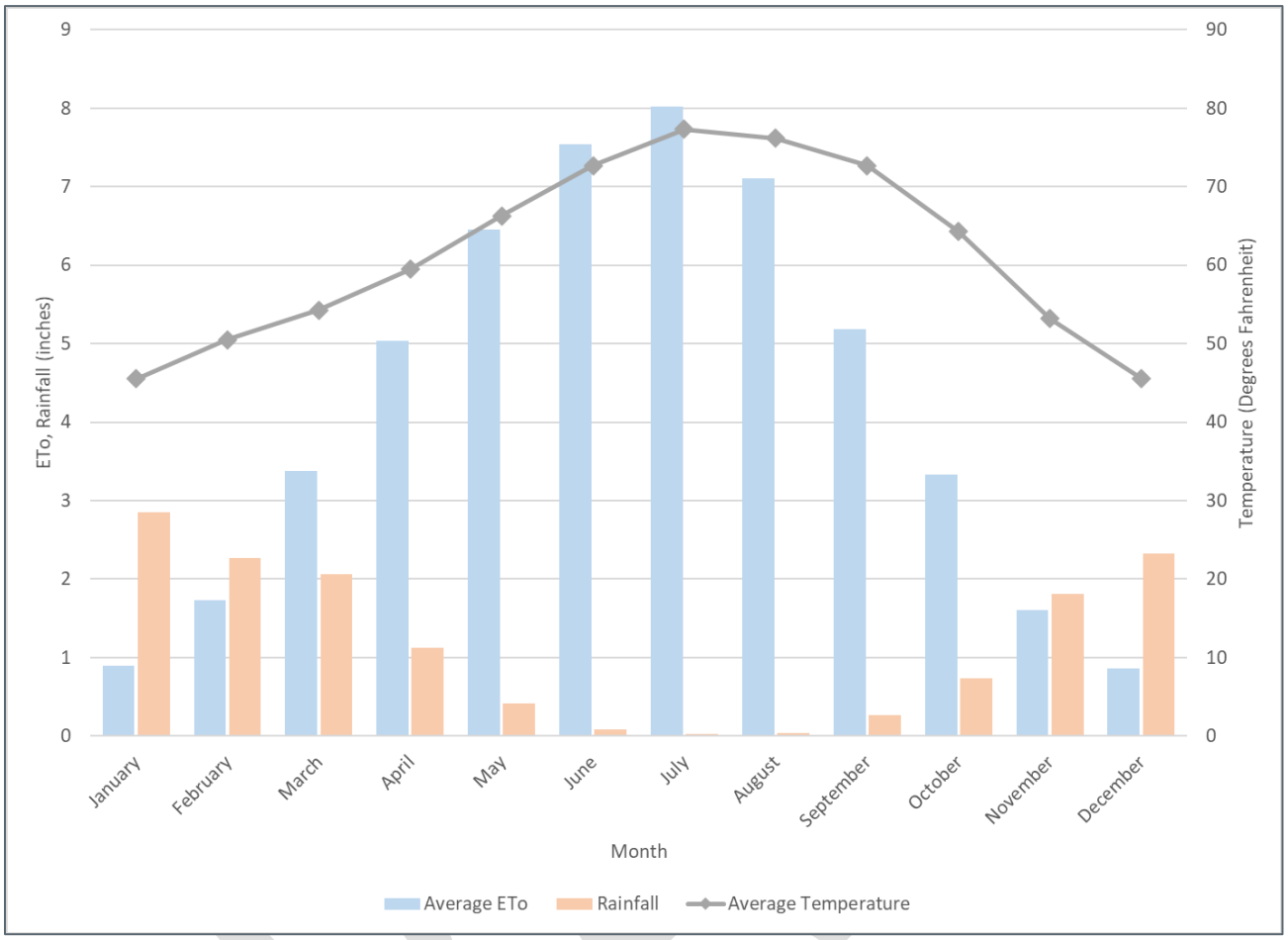


*Source: California Department of Water Resources, California Irrigation Management Information System, Station 70, November 1987 – 2015. Rainfall and temperature data were obtained by City staff from the NOAA website.*

**Figure 4-1. City of Manteca Average Monthly Climate Data**

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# 5.0 CITY OF MANTECA WATER DEMANDS

Water Code section 10910 states:

> *10910(c)(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*

As indicated in Section 3 of this WSA, the water demand for the Proposed Project was included in the City of Manteca General Plan Update Water Supply Report, attached as Appendix A to this WSA. The Water Supply Report has been updated to reflect the current (September 2021) understanding of the City's General Plan Update. The General Plan Update land use is being updated, and a revised version of the Water Supply Report will be provided in the coming months as that land use data are evaluated.

The following topics are covered in this section:

- Existing and Projected Water Demand
- Dry Year Water Demand

## 5.1 Existing and Projected Water Demand

City potable and raw water demand in 2020 was approximately 16,253 acre-feet (AF), which may have been caused by a higher daytime population than normal due to stay-at-home orders and mandated closure of non-essential businesses in response to the COVID-19 pandemic.

The projected water demand for future land use area for the buildout of the General Plan areas, which includes the Proposed Project in the City's General Plan Update, was calculated by multiplying the projected land uses by the unit water demand factor. The resulting water demand projection was 17,971 AFY.

Therefore, the projected potable and raw water demand at buildout of the General Plan is 34,224 AFY (16,253 AFY existing plus 17,971 AFY projected). Buildout of the General Plan planning area is projected to occur shortly before 2050.

The City's existing and projected potable and raw water demand is shown in Table 5-1. The 2020 data reflect actual 2020 demand. The projected water demands shown in Table 5-1 will be used throughout this WSA.

**Table 5-1. City of Manteca Existing and Projected Total Water Demand in Normal Years, AFY**

| | 2020, Current | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|---|
| Total Water Demand | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |

*Sources: 2020 Water demand per City of Manteca; demand projections assume a constant growth rate between 2020 and buildout of the General Plan, which translates to 2.60 percent per year.*

The City's projected water demand at buildout (based on existing water demand and buildout of the General Plan Update, and the projected water demand of the Proposed Project) is summarized in Table 5-2. The City's preliminary water demand projections for future developments with approved water supply, as of March 2021, have been updated by West Yost to be based on water use factors that were adjusted for SB X7-7 (see Table 2-2). These revised demand projections for future developments within the City are included in Appendix A of this WSA.

**Table 5-2. City of Manteca Projected Buildout Water Demand**

| | Demand, AFY |
|---|---|
| Existing 2020 Water Demand | 16,253 |
| 2040 General Plan Horizon Water Demand[(a)] | 10,911 |
| 2045 Water Demand[(b)] | 3,721 |
| Buildout of General Plan[(c)] | 3,339 |
| **Total Water Demand** | **34,224** |

*Sources: 2020 Water demand per City of Manteca; demand projections assume a constant growth rate between 2020 and buildout of the General Plan, which translates to 2.60 percent per year.*

(a) 2040 General Plan Horizon Water Demand represents incremental increase in water demand beyond existing demand.
(b) 2045 Water Demand represents incremental increase in water demand beyond the existing and 2040 General Plan demand.
(c) General Plan Buildout represents incremental increase in water demand beyond the existing, 2040 General Plan, and 2045 water demand.

## 5.2 Dry Year Water Demand

The City currently has a water conservation program in place, as described in Chapter 8 of the City's 2015 UWMP. The City's Water Shortage Contingency Plan includes a five-stage plan describing water conservation measures to reduce water demand by up to 50 percent in the event of a water supply shortage or emergency. The water shortage stages, and their respective anticipated reduction in potable water demand, are shown in Table 5-3.

**Table 5-3. Water Shortage Contingency Plan Projected Demand Reduction**

| Stage | Percent Supply Reduction |
|---|---|
| I | Up to 10 percent |
| II | 11 – 20 percent |
| III | 21 – 30 percent |
| IV | 31 – 40 percent |
| V | 41 – 50 percent |

*Source: City of Manteca 2015 UWMP, Table 8-1 Stages of WSCP*

When comparing potable water supply to demand in the City's 2015 UWMP and in this WSA, the dry year water demands are assumed to not include implementation of the City's Water Shortage Contingency Plan. This is a conservative assumption, as additional water conservation will likely occur as a result of the City's implementation of its Water Shortage Contingency Plan in response to dry years or other water supply shortages. Table 5-4 presents the projected future dry year potable water demand.

| Table 5-4. Projected Future Dry Year Potable and Raw Water Demand | | | | | | | |
|---|---|---|---|---|---|---|---|
| Hydrologic Condition | Demand Reduction[(a)] | 2020 | 2025 | 2030 | 2035 | 2040 | 2045 |
| Single Dry Year, AFY | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| Multiple Dry Year 1 | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| Multiple Dry Year 2 | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| Multiple Dry Year 3 | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| Multiple Dry Year 4 | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| Multiple Dry Year 5 | 0 | 16,253 | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| (a) Conservatively assumes no demand reduction in dry years. | | | | | | | |

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# 6.0 CITY OF MANTECA WATER SUPPLIES

Key topics addressed in this section include:

- Regulatory Background
- City's Surface Water Supply
- City's Groundwater Supply
- City's Potable Water Supply Availability and Reliability

## 6.1 Regulatory Background

Water Code section 10910 states:

*10910(c)(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f) and (g).*

*10910(d)(1) The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.*

*10910(d)(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall be demonstrated by providing information related to all of the following:*

*(A) Written contracts or other proof of entitlement to an identified water supply.*

*(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.*

*(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.*

*(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.*

*10910(e) If no water has been received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts, the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall also include in its water supply assessment pursuant to subdivision (c), an identification of the other public water systems or water service contract-holders that receive a water supply or have existing water supply entitlements, water rights, or water service contracts, to the same source of water as the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has identified as a source of water supply within its water supply assessments.*

It is anticipated that water supply for the Proposed Project would be local groundwater and treated surface water from SSJID's South County Water Supply Program (SCWSP).

Proponents of the Proposed Project will provide their proportionate share of required funding to the City for the acquisition and delivery of treated potable water supplies to the Proposed Project area through connection fees and other means. This arrangement will be outlined within the Conditions of Approval between the project applicant and the City. The Conditions of Approval will be completed as part of the City's formal land use actions.

The summaries of the City's water supplies provided below have been taken, for the most part, from the City's 2015 UWMP, South San Joaquin Irrigation District 2020 UWMP, and the Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan (2019).

## 6.2 Surface Water Supply

The principal component of future water supply for the City is deliveries from the SCWSP. The City, along with three other cities/retail water suppliers (Escalon, Lathrop, and Tracy), signed water supply agreements with SSJID to supply treated potable water to the participating cities.

The Nick C. DeGroot Water Treatment Plant (WTP) is commissioned for the SCWSP and is currently operated by SSJID. The WTP has a total Phase 1 capacity of 31,522 AFY and the Phase 2 capacity is anticipated to be 43,090 AFY. Phase 2 has not yet been implemented but is expected by 2040, according to the SSJID 2020 UWMP. Currently, the City is allotted 11,500 AFY under Phase 1 and 18,500 AFY under Phase 2. The term of the City's water supply agreement with SSJID is through December 2029. The City and SSJID signed a new contract to extend this contract through 2049. Historically, the City has not utilized its full allocation of surface water due to system constraints and State and SSJID supply limits in response to the drought conditions.

## 6.3 Groundwater Supply

Water Code section 10910 states:

> *10910(f) If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water supply assessment.*
>
> *10910(f)(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.*
>
> *10910(f)(2) A description of any groundwater basin or basins from which the proposed project will be supplied. For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as over drafted or has projected that the basin will become over drafted if present management conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long term overdraft condition.*
>
> *10910(f)(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historical use records.*

*A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historical use records.*

*10910(f)(4) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project.*

*A water assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water demand associated with the project was addressed in the description and analysis required by paragraph (4) of subdivision (b) of Section 10631.*

The local groundwater basin and City groundwater use are described in the City's 2015 UWMP. A summary of the groundwater basin and historical and projected groundwater pumping are provided below.

#### 6.3.1.1 Basin Description

The City's wells are located in the Eastern San Joaquin (ESJ) Subbasin, which is a subbasin of the San Joaquin Valley Groundwater Basin. The groundwater aquifers underlying the City have been identified to include four geologic formations. In increasing depth from the surface, the identified aquifers are Victor Formation, Laguna Formation, Mehrten Formation, and Valley Springs Formation. Due to the alluvial generation of these aquifers, there is significant variation in grain size, with lenses and strata of high yield gravel, permeable sandy material, and lower permeability clays. In general, the strata slope from the hills east of the City downward to the west, providing good recharge from hill runoff as well as from the Stanislaus River. The City's wells primarily withdraw water from the Laguna and Victor Formations.

The basin is not adjudicated; however, a basin management plan has been created. The Eastern San Joaquin Groundwater Basin Groundwater Management Plan (ESJGB-GMP) (NSJCGB, 2004) was prepared in September 2004. According to Department of Water Resources (DWR) Bulletin 118 (DWR, 2006), the ESJ Subbasin is in a critical condition of overdraft.[4] Groundwater levels have been historically declining at an average rate of 1.7 feet per year. Groundwater overdraft in the overall basin and the City's groundwater withdrawal rate is of vital concern to the City as this poses a long-term risk to the reliability of the groundwater supply.

In 2014, the Sustainable Groundwater Management Act (SGMA) was signed into law to provide a framework for management of groundwater supplies by local agencies and restricts state intervention, if required. SGMA provides an opportunity for local agencies overlying the basin to form a Groundwater Sustainability Agency (GSA), which is the primary agency responsible for achieving sustainability. As part of the region's compliance with SGMA, the Eastern San Joaquin Groundwater Authority was formed in 2017 and includes representatives from Calaveras County Water District / Stanislaus County, California Water Service Company, Central Delta Water Agency, Central San Joaquin Water Conservation District, City of Lathrop, City of Lodi, City of Manteca, City of Stockton, Linden County Water District, Lockeford Community Services District, North San Joaquin Water Conservation District, Oakdale Irrigation District, San Joaquin County, South Delta Water Agency, South San Joaquin Groundwater Sustainability Agency,

[4] The Eastern San Joaquin County Groundwater Subbasin was confirmed to be in critical condition of overdraft in the DWR Bulletin 118 Interim Update 2016.

Stockton East Water District, and the Woodbridge Irrigation District GSA. This GSA adopted a Groundwater Sustainability Plan (GSP) in late 2019, because the Eastern San Joaquin Groundwater Subbasin has been identified as being in a state of critical overdraft and is considered a high priority. Two projects for the City that were identified in the GSP are the implementation of AMI, mentioned above, and the transfer of recycled water to agricultural uses to offset groundwater pumping.

### 6.3.1.2 Groundwater Production

The sustainable yield of the groundwater basin was estimated in the 2019 GSP[5] to be approximately 1 acre-foot per acre per year (715,000 AFY plus or minus 10 percent over the subbasin area of 1,195 square miles, an average of 0.935 AF/acre). In 2005, the City began receiving treated surface water from SCWSP and the City has had limited groundwater pumping since the implementation of the SCWSP. Although groundwater pumping in some years prior to 2005 has exceeded that rate, as part of the SCWSP, the City intends to limit groundwater pumping to that rate or less. Projected groundwater availability is therefore based on an assumption that up to 1 AFY of groundwater is available per acre of City service area.

The total groundwater pumping that occurs within the City boundaries include City-owned municipal wells and City-owned park irrigation wells, in addition to irrigation and domestic wells owned and operated by others. This section provides a summary of the estimated groundwater pumping that occurs within the current City limits and planning area. According to the City's 2015 UWMP, groundwater pumping data collection is on-going and there are potentially many groundwater pumping wells that are unmetered and unidentified.

#### *6.3.1.2.1 City-Produced Groundwater*

The City currently (2021) owns and operates 17 potable water wells and 31 irrigation wells. The City's annual potable groundwater production has steadily increased historically, reaching a peak of 14,900 AF in 2004. Commissioning of the surface water treatment plant in 2005 decreased groundwater use considerably, and the WTP currently supplies an average of 52 percent of the City's annual potable water supply. Since 2005, the City has constructed dedicated irrigation wells at many parks in an effort to reduce potable demand, which requires wellhead treatment at many wells for arsenic and other constituents to meet drinking water standards. In 2000, the City pumped about 1.2 AFY/acre but has since decreased pumping to about 0.7 AFY/acre in 2010 and to about 0.5 AFY/acre in 2015. When the City annexes new areas, the safe yield remains unchanged; however, the volume of available groundwater increases with the annexation of land into the City. However, the 1 AFY/acre does not provide sufficient water supply for most projects.

#### *6.3.1.2.2 Pumping by Others*

Because there are numerous wells not owned by the City that are drawing from the ESJ Subbasin, this pumping could affect the amount of groundwater available to the City within the groundwater basin safe yield. Wells currently in operation not owned by the City include private domestic wells, agricultural wells, wells for school irrigation owned by the Manteca Unified School District (MUSD), and irrigation wells owned by SSJID, among others. Well completion reports obtained from DWR suggest that approximately 1,000 water wells have been constructed within the General Plan area since record keeping began in the

[5] "Eastern San Joaquin County Groundwater Subbasin. Groundwater Sustainability Plan." Eastern San Joaquin Groundwater Authority, November 2019.

1960s; however, many may not have been registered as abandoned. It is anticipated that most domestic wells are no longer in use, though further investigation would be needed to verify this assumption.

It is known that MUSD and others own and operate wells within the City and its planning area. It is also assumed that pumping by MUSD and other known pumpers within the City and its planning area should be included in the groundwater safe yield accounting for purposes of this evaluation. Groundwater pumping by others may also be included in future updates of this initial estimate.

Metered pumping records for MUSD have not been provided. The MUSD is assumed to irrigate 25 percent of its parcels at 4 AFY/acre. According to the City's 2015 UWMP, the groundwater pumping from other ESJ entities were estimated as follows:

- Given that the MUSD has approximately 500 total acres, the total annual water use is estimated at approximately 500 AFY.
- According to SSJID pumping records for 2010 through 2015, an average of 4,860 AFY groundwater was pumped from SSJID-leased wells. Of this, an average of 2,860 AFY was pumped within the City of Manteca and the City's Planning Area. Therefore, groundwater pumping from SSJID-leased wells is projected to be 2,860 AFY.
- Other known industrial groundwater pumpers include Eckerts Cold Storage. The City treats over 130 AF of wastewater produced by Eckerts each year. Based upon this average, groundwater pumping is estimated at 150 AFY assuming a return-to-sewer ratio of approximately 85 percent.

#### 6.3.1.3 Historical Groundwater Pumping

Historically, the City extracted groundwater at a rate as high as 1.6 AFY/acre, based on the developed City area. As discussed previously, the SCWSP allowed the City to reduce local groundwater extraction to less than the estimated basin safe yield of 1 AFY/acre.

Since 2006, after the commissioning of the SCWSP, the total groundwater pumping for the City of Manteca has ranged from 8,062 AFY to 10,374 AFY, averaging about 8,700 AFY. Pumping amounts were generally consistent over the years 2011 to 2015, with a decrease in 2014 and 2015, likely attributable to statewide mandatory demand reduction regulations. With this exception, there were no limitations or challenges for obtaining groundwater during the last 5 years, and the available groundwater quantity was sufficient. Groundwater pumping by City wells from 2011 to 2015 is summarized in Table 6-1.

**Table 6-1. Historical Groundwater Production**

| | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|
| Groundwater Supply, AFY | 9,156 | 10,374 | 9,922 | 6,546 | 7,249 |

*Source: City of Manteca 2015 UWMP, Table 6-2 Groundwater Volume Pumped*

## 6.4 Potable Water Supply Availability and Reliability

The City's surface water and groundwater supply reliability as described in the City's 2015 UWMP is summarized below.

### *6.4.1 Surface Water Reliability*

SSJID has existing agreements to provide surface water to agricultural interests, federal and state agencies, and cities in the south San Joaquin area. Some of these agreements are long-term, while others are as short as one week for agricultural deliveries.

Surface water reliability is in part reliant on storage and releases from upstream dams along the Stanislaus River with respect to the Nick C. DeGroot WTP intake location. While SSJID has surface water rights to approximately 600,000 AFY jointly held with the Oakdale Irrigation District (OID), the full allocation to SSJID and OID is subject to runoff from the Stanislaus River and other constraints per the 1988 Stipulation and Agreement with the U.S. Bureau of Reclamation that constructed and operates New Melones Reservoir on the Stanislaus River.

According to the 1988 Agreement, SSJID is entitled to 300,000 AFY during normal water years, however drought conditions and seasonal variations have the potential to reduce the allocation to SSJID and the contracted cities it delivers water to, including the City. The New Melones Reservoir inflow has a direct effect on surface water availability to SSJID. The following equation governs water supply availability to SSJID when inflows are less than 600,000 AF:

New Melones Inflow + [(600,000 - New Melones Inflow) / 3]

Currently, SSJID is expected to provide total supplies (including irrigation and potable) ranging from 225,000 AFY to 300,000 AFY, though the lowest supply on record was 225,000 AF in both 2014 and 2015 (2015 UWMP). In the event that shortages do occur, SSJID and OID share the deficiencies equally.

As mentioned in Section 6.2, the City is allotted 11,500 AFY from SSJID under Phase 1 and a total of 18,500 AFY under Phase 2. It is anticipated that SSJID will implement Phase 2 of the SCWSP by 2040, providing an additional 7,000 AFY in surface water supply to the City.

#### 6.4.1.1 Reliability of SCWSP Deliveries

Under single year and multiple year dry period scenarios, deliveries to the City by SSJID could be reduced. The availability and reliability of the City's SCWSP surface water deliveries during dry years according to SSJID's 2020 UWMP are described below:

- For Single Dry Year reliability, the City has based its projected SSJID allocations on the single driest hydrologic year (Year 2020). With this assumption, it is anticipated that the City will receive between 79 and 100 percent of its normal year water supply during a single dry year.
- For Multiple Dry Years reliability, the City has based its projected SSJID allocations on the most recent five-year multiple dry year hydrologic cycle (Year 2012 through 2016). With this assumption, it is anticipated that the City will receive 100 percent of its normal year water supply during the first, second, and fifth years of a multiple dry year scenario and between 79 percent and 100 percent of its normal year supply during the third and fourth years of a multiple dry year scenario.

In December 2018, the State Water Resources Control Board (SWRCB) released an updated Water Quality Control Plan for the San Francisco Bay/Sacramento San Joaquin Delta Estuary with significant changes to the previous Bay Delta Water Quality Control Plan. The updated plan (Bay-Delta Plan Amendment) requires releases of approximately 40 percent of what would naturally flow in watersheds tributary to the San Joaquin River (including the Stanislaus River) during the February to June period. This means that surface water users on those watersheds would be restricted from using and storing water until 40 percent of unimpaired flows are rededicated for water quality and instream fishery purposes. For the Stanislaus River, the resulting surface water cutbacks would be significant. Because over a dozen lawsuits have been filed in both state and federal courts, the SSJID 2020 UWMP indicates that SSJID has opted to make no near-term planning assumptions related to the implementation of the Bay-Delta Plan Amendment for the purposes of its 2020 UWMP. Should conditions change or consequential resolution of the issues come to be, SSJID indicates it will revise and re-adopt a 2020 UWMP to reflect changes to its impacted water supply.

The projected surface water deliveries available to the City through 2045 as derived from the SSJID 2020 UWMP, are presented in Table 6-2. The City's 2020 UWMP is in progress and the water, sewer, recycled water, and stormwater master plans will be updated within the next one to two years.

The projected surface water deliveries available to the City are presented in Table 6-2.

**Table 6-2. SCWSP Surface Water Deliveries to the City of Manteca during Hydrologic Normal, Single Dry, and Multiple Dry Years, AFY**

| | 2025 | 2030 | 2035 | 2040 | 2045 |
|---|---|---|---|---|---|
| Normal Year | 11,500 | 11,500 | 11,500 | 18,500 | 18,500 |
| Single Dry Year | 9,649 | 10,566 | 11,483 | 14,592 | 15,671 |
| Multiple Dry Year 1 | 11,500 | 11,500 | 11,500 | 18,500 | 18,500 |
| Multiple Dry Year 2 | 11,500 | 11,500 | 11,500 | 18,500 | 18,500 |
| Multiple Dry Year 3 | 9,649 | 10,566 | 11,483 | 14,592 | 15,671 |
| Multiple Dry Year 4 | 9,649 | 10,566 | 11,483 | 14,592 | 15,671 |
| Multiple Dry Year 5 | 11,500 | 11,500 | 11,500 | 18,500 | 18,500 |

*Source: Derived from SSJID 2020 UWMP, Table 7-2 Basis of Water Year Data.*

### *6.4.2 Groundwater Reliability*

There are many factors that can affect groundwater supply reliability, including current storage conditions, water quality, seasonal groundwater level variations, and climate change. Reduced use by the City, combined with seasonal variations such as intense wet seasons, can result in increased groundwater table elevation. Additionally, all wells are located in the western portion of the SSJID service area and draw from the Eastern San Joaquin Subbasin, the same basin that the City, the City of Lathrop, the City of Stockton, and other groundwater users draw from. For the purposes of this evaluation, only groundwater pumping estimated to be occurring within the City General Plan Update area is included.

While seasonal fluctuations do have a noticeable effect on groundwater elevation, the overall trend showed a decline over time until the City began to use imported surface water in 2005. Historical trends from California Statewide Groundwater Elevation Monitoring (CASGEM) indicate that the basin has

experienced groundwater overdraft conditions. The introduction of surface water supply has helped groundwater elevation trends recover within the City by reducing pumping in the area.

Groundwater supply projections include approved proposed and entitled developments outside of the City boundaries, but within the planning area, and estimated groundwater pumping by others within the planning area. The projected groundwater supply reliability does not account for groundwater pumping outside the City planning area, nor undocumented privately owned domestic or irrigation wells. Groundwater use may increase as population increases, and groundwater use by others (including MUSD and agricultural users) may also increase in single dry years and multiple dry years (when surface water cutbacks occur). Constant groundwater demands from the MUSD and agricultural users have been assumed for all hydrologic scenarios.

The GSP indicates that the sustainable yield of the groundwater basin is approximately 1 AFY/acre (0.935 AFY/acre plus or minus 10 percent). For purposes of this WSA, West Yost assumes the City will limit groundwater use to approximately 24,877 AFY (the projected City area at Buildout of the General Plan planning area). The projected groundwater availability, assuming a constant growth rate through 2045, is shown in Table 6-3.

**Table 6-3. Projected Groundwater Production during Hydrologic Normal, Single Dry, and Multiple Dry Years, AFY**

| | 2020[a] | 2025[b] | 2030[b] | 2035[b] | 2040[b] | 2045[b] |
|---|---|---|---|---|---|---|
| Assumed Groundwater Supply | 10,060 | 11,760 | 13,747 | 16,069 | 18,784 | 21,957 |

(a) City of Manteca 2015 UWMP, Table 6-10.

(b) Based on 1 AFY of groundwater available per acre of City surface area, as discussed in Section 6.3 of this WSA. The projected groundwater production during 2025 to 2045 were interpolated using a constant growth rate and the 2020 (10,060 AFY) and General Plan Buildout (24,877 AFY) values. It is noted that General Plan Buildout is anticipated to occur between 2049 and 2050.

The 2020 value of 10,060 AFY accounts for the area within the City limits and then subtracts out other estimated groundwater uses within City limits. As development continues, the largest groundwater usage inside City limits, agricultural use, would decrease. The groundwater supply shown in Table 6-3 assumes the City's available ground water supply within the safe yield would increase as area outside the current City limits, and within the Planning Area, are annexed into the City for development.

## 6.5 Potable Water Infrastructure Evaluation

The project applicant has prepared a technical memorandum describing the expected infrastructure necessary to serve the Project. This infrastructure technical memorandum is included as Appendix B. The City's Water System Master Plan, currently in development, will identify infrastructure needed to serve buildout of the General Plan planning area.

# 7.0 DETERMINATION OF WATER SUPPLY SUFFICIENCY BASED ON THE REQUIREMENTS OF SB 610

Water Code section 10910 states:

> *10910(c)(4) If the city or county is required to comply with this part pursuant to subdivision (b), the water supply assessment for the project shall include a discussion with regard to whether the total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses.*

Pursuant to Water Code section 10910(c)(4) and based on the technical analyses described in this WSA, the total projected water supplies determined to be available for the Proposed Project during Normal, Single Dry, and Multiple Dry years during a 20-year projection will meet the projected water demand associated with the Proposed Project, in addition to existing and planned future uses.

A comparison of the City's projected potable and raw water supplies and demands is shown in Table 7-1 for Normal, Single Dry, and Multiple Dry Years.

As shown in Table 7-1, demand within the City's service area is not expected to exceed the City's supplies in any Normal year between 2020 and 2045.

For purposes of this WSA, no demand reductions are assumed during dry years. With this assumption, the City's water demands are not expected to exceed water supplies in Single Dry Years or Multiple Dry Years.

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**Table 7-1. Summary of Potable and Raw Water Demand Versus Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years**

| Hydrologic Condition | | Supply and Demand Comparison, AFY | | | | |
|---|---|---|---|---|---|---|
| | | 2025 | 2030 | 2035 | 2040 | 2045 |
| Normal Year | | | | | | |
| Available Potable and Raw Water Supply[(a)] | | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| Total Water Demand[(b)] | | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 4,780 | 4,235 | 3,678 | 10,120 | 9,572 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Single Dry Year | | | | | | |
| Available Potable and Raw Water Supply[(a)] | | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| Total Water Demand[(b)] | | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 2,929 | 3,301 | 3,661 | 6,212 | 6,743 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Multiple Dry Year | | | | | | |
| Multiple Dry Year 1 | Available Potable and Raw Water Supply[(a)] | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand[(b)] | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 4,780 | 4,235 | 3,678 | 10,120 | 9,572 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Multiple Dry Year 2 | Available Potable and Raw Water Supply[(a)] | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand[(b)] | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 4,780 | 4,235 | 3,678 | 10,120 | 9,572 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Multiple Dry Year 3 | Available Potable and Raw Water Supply[(a)] | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| | Total Water Demand[(b)] | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 2,929 | 3,301 | 3,661 | 6,212 | 6,743 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Multiple Dry Year 4 | Available Potable and Raw Water Supply[(a)] | 21,409 | 24,313 | 27,552 | 33,376 | 37,628 |
| | Total Water Demand[(b)] | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 2,929 | 3,301 | 3,661 | 6,212 | 6,743 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |
| Multiple Dry Year 5 | Available Potable and Raw Water Supply[(a)] | 23,260 | 25,247 | 27,569 | 37,284 | 40,457 |
| | Total Water Demand[(b)] | 18,480 | 21,012 | 23,891 | 27,164 | 30,885 |
| | Potential Surplus (Deficit) | 4,780 | 4,235 | 3,678 | 10,120 | 9,572 |
| | Supply Shortfall, Percent of Demand | - | - | - | - | - |

(a) Surface Water Supply from Table 6-2 plus Assumed Groundwater Supply from Table 6-3.
(b) Equals the City's total projected potable and raw water demand (from Table 5-1 and Table 5-4).

# 8.0 WATER SUPPLY ASSESSMENT APPROVAL PROCESS

Water Code sections 10910 and 10911 state:

> *10910 (g)(1) Subject to paragraph (2), the governing body of each public water system shall submit the assessment to the city or county not later than 90 days from the date on which the request was received. The governing body of each public water system, or the city or county if either is required to comply with this act pursuant to subdivision (b), shall approve the assessment prepared pursuant to this section at a regular or special meeting.*
>
> *10911 (b) The city or county shall include the water supply assessment provided pursuant to Section 10910, and any information provided pursuant to subdivision (a), in any environmental document prepared for the project pursuant to Division 13 (commencing with Section 21000) of the Public Resources Code.*

As indicated above, this WSA must be included in the Draft EIR being prepared for the Proposed Project.

In addition, SB 221 applies to residential subdivisions of over 500 DUs and requires that the water supplier provide a written verification that the water supply for the project is sufficient, prior to issuance of the final permits. Because the Proposed Project includes 814 residential DUs, it is subject to the requirements of SB 221 (Government Code section 66473.7) and a verification of sufficient water supply (SB 221) report will be required prior to final approvals.

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# 9.0 REFERENCES

California Department of Water Resources. Bulletin 118, *California's Groundwater*, 2006 Update and Interim Update 2016.

City of Manteca. 2015 Final Urban Water Management Plan. September 2016.

City of Manteca. 2005 Water Master Plan. May 2005.

City of Manteca. General Plan 2023. Adopted on October 6, 2003.

Eastern San Joaquin Groundwater Authority. Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan. November 2019.

NorthStar Engineering Group, Inc. Yosemite Square Draft Vesting Tentative Subdivision Map. Received April 2022.

South San Joaquin Irrigation District. 2020 Urban Water Management Plan. June 2021.

West Yost. City of Manteca - General Plan Update Water Supply Report. September 2021.

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# Appendix A

## City of Manteca - General Plan Update
## Water Supply Report

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WEST YOST
Water. Engineered.

6800 Koll Center Parkway
Suite 150
Pleasanton CA 94566

925.426.2580 phone
530.756.5991 fax
westyost.com

September 30, 2021

Project No.: 487-10-16-11
SENT VIA: EMAIL

Beth Thompson
Principal
De Novo Planning Group
1020 Suncast Lane #106
El Dorado Hills, CA 95762

**SUBJECT: City of Manteca - General Plan Update Water Supply Report – Working Draft**

Dear Beth:

The purpose of this letter report is to present the findings of the Water Supply Analysis of the City of Manteca (City) General Plan Update. In this letter report, we summarize the future land use currently being assumed in the on-going General Plan Update, project future demand at Buildout (projected to occur between 2049 and 2050) and compare the projected water demand to the water supply documented in the City's 2015 Urban Water Management Plan (UWMP), the 2019 Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan (GSP), and the South San Joaquin Irrigation District (SSJID) 2020 UWMP. The City is currently preparing the 2020 UWMP. As discussed, the future land use assumptions are subject to change and this letter report will be updated once the General Plan Land Use is final.

As indicated below, based on the assumptions presented in this letter report, the City would have sufficient water supplies to serve development of the proposed land uses.

## GENERAL PLAN UPDATE LAND USE

The City of Manteca is located in the flat plain at the northern end of California's San Joaquin Valley in south San Joaquin County. The City is located approximately 10 miles south of Stockton and 15 miles north of Modesto. The Planning Area for the Manteca General Plan includes the entire city limits and the Planning Area inside the City's Sphere of Influence (SOI).

The location of the General Plan planning area in relation to the current City limits and Sphere of Influence is shown on Figure 1.

The proposed General Plan buildout, if approved, consists of low density residential, medium density residential, and high-density residential land uses, as well as various business, commercial, commercial mixed use, industrial, and park land uses.

Proposed future land uses for buildout of the General Plan are summarized in Table 1 and shown on Figure 2.

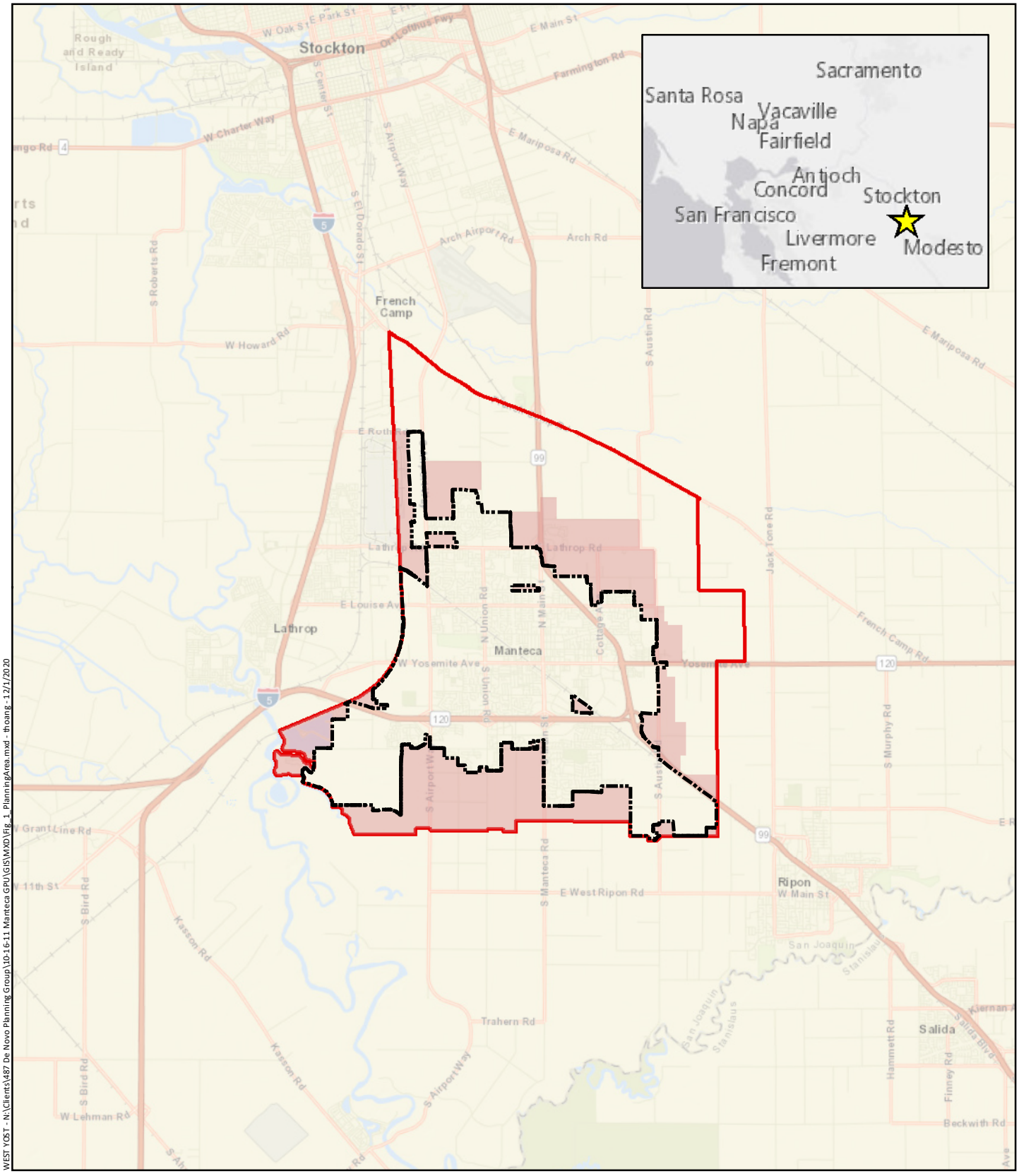
**Table 1. Proposed Future Land Uses for Buildout of the General Plan**

| Land Use | Development Projects, DU, SF | Development Projects, Acres | Remaining General Plan Buildout (less Development Projects), DU, SF | Remaining General Plan Buildout (less Development Projects), Acres | Full General Plan Buildout, DU, SF | Full General Plan Buildout, Acres |
|---|---|---|---|---|---|---|
| Residential Development | | | | | | |
| Single Family Residential[(a)] | 7,291 | 1,458 | 19,273 | 3,855 | 26,564 | 5,313 |
| Multifamily Residential[(b)] | 1,295 | 65 | 8,791 | 440 | 10,086 | 504 |
| Total Housing Units | 8,586 | 1,523 | 28,064 | 4,294 | 36,650 | 5,817 |
| Non-Residential Development | | | | | | |
| Commercial | 3,052,187 | 70 | 8,063,995 | 185 | 11,116,182 | 255 |
| Office | 1,114,694 | 26 | 3,853,950 | 88 | 4,968,634 | 114 |
| Industrial | 4,438,868 | 102 | 14,744,350 | 338 | 19,183,218 | 440 |
| Other (Agriculture) | 41,396 | 1 | 149,007 | 3 | 190,403 | 4 |
| Total Non-Residential | 8,647,145 | 199 | 26,811,302 | 616 | 35,458,437 | 814 |
| Total (Acres) | | 3,443 | | 9,819 | | 6,631 |

*Source: City of Manteca, Draft Environmental Impact Report – Manteca General Plan Update, December 2020.*

(a) Single Family Residential land use was assumed to be low density residential (2.1-8 du/ac).

(b) Multifamily Residential land use was assumed to be high density residential (15-25 du/ac).

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City Limits

Sphere of Influence

Planning Area

N

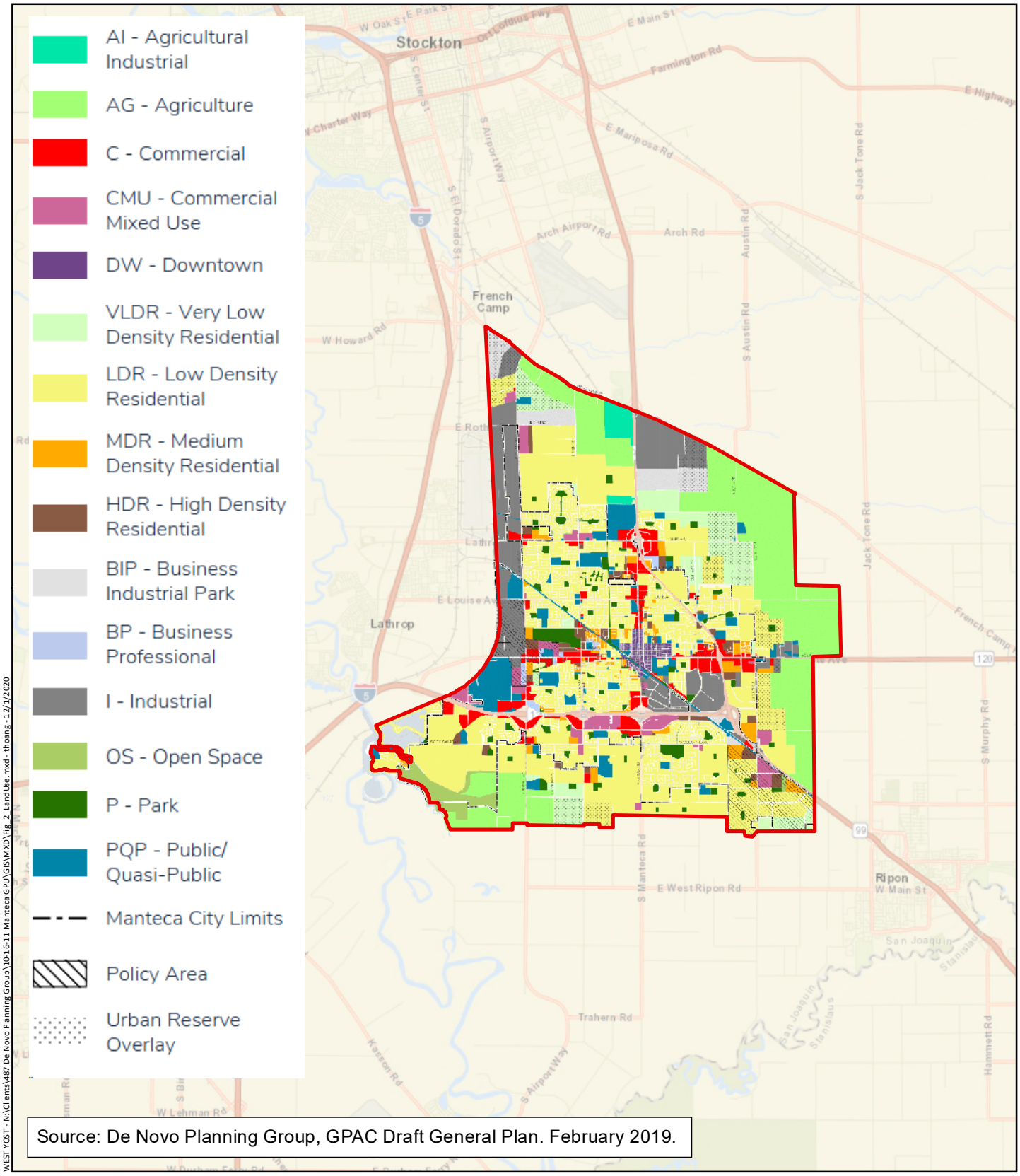
0 0.5 1

Scale in Miles

**Figure 1**

**Planning Area**

**De Novo Planning Group**
Manteca General Plan Update




Planning Area

N

0 0.5 1

Scale in Miles

**Figure 2**

**Land Use**

**De Novo Planning Group**
Manteca General Plan Update

WEST YOST

WEST YOST - N:\Clients\487 De Novo Planning Group\10-16-11 Manteca GPU\GIS\MXD\Fig_2_LandUse.mxd - thoang - 12/1/2020

# PROJECTED WATER DEMAND

The projected water demand for the future land use areas was calculated by multiplying the projected land uses from Table 1 by the land use-based water demand factors shown in Table 2.

**Table 2. Water Use Factors by Land Use Type**

| Land Use Designation | Water Use Factor, Gallons Per Day per Acre (gpd/acre) | |
|---|---|---|
| | 2005 Water Master Plan[a] | Adjusted for SBX7-7[b] |
| Very Low Density Residential (VLDR) | 1,700 | 1,360 |
| Low Density Residential (LDR) | 2,800 | 2,240 |
| Medium Density Residential (MDR) | 3500 | 2,800 |
| High Density Residential (HDR) | 6,500 | 5,200 |
| Industrial | 300 | 240 |
| Neighborhood Commercial | 2,200 | 1,760 |
| Business Industrial Park | 300 | 240 |
| Commercial Mixed-Use | 2,200 | 1,760 |
| General Commercial | 1,500 | 1,200 |
| Open Space | 4,000 | 3,200 |
| Parks | 4,000 | 3,200 |
| Public/Quasi-Public | 300 | 240 |

(a) Based on unit water demand factors established in the City of Manteca 2005 Water Master Plan. These factors assume a per capita water use of approximately 225 GPCD and do not account for conservation measures.

(b) Based on a 20 percent reduction of factors shown in the City of Manteca 2005 Water Master Plan. These factors assume that the City is able to meet its per capita water use target of 179 GPCD.

The resulting water demand projection is shown in Table 3.

**Table 3. Projected Water Demand of Future Land Uses at Buildout of the General Plan**

| Proposed Land Use | Area, acres[a] | Water Demand Factor, gpd per acre[b] | Water Demand, acre-feet |
|---|---|---|---|
| Single Family Residential | 5,313 | 2,240 | 13,330 |
| Multi-Family Residential | 504 | 5,200 | 2,937 |
| Industrial | 440 | 240 | 118 |
| Office | 114 | 1,760 | 225 |
| General Commercial | 255 | 1,200 | 343 |
| Agricultural | 4 | - | - |
| Subtotal | 6,631 | - | 16,954 |
| Unaccounted-for Water[c] | - | - | 1,017 |
| **Total** | - | - | **17,971** |

(a) See Table 1.

(b) See Table 2.

(c) Six percent of water demand per 2015 UWMP.

City potable and raw water demand in 2020 was approximately 16,253 AF, which may have been caused by a higher daytime population than normal due to stay-at-home orders and mandated closure of non-essential businesses in response to the COVID-19 pandemic. **Therefore, the projected potable and raw water demand at buildout of the General Plan is 34,224 AFY (16,253 AFY existing plus 17,971 AFY projected).**

## WATER SUPPLY SUMMARY

The City's water supplies are documented in the City's 2015 UWMP and the SSJID 2020 UWMP and are summarized below.

The projected surface water deliveries available to the City in 2045, near Buildout of the General Plan, as documented in the SSJID 2020 UWMP, are presented in Table 4.

**Table 4. SCWSP Surface Water Deliveries to the City of Manteca during Hydrologic Normal, Single-Dry, and Multiple-Dry Years in 2045**

| Hydrologic Condition | Percent of Normal Supply | Projected Water Delivery, AFY |
|---|---|---|
| Normal Year | 100 | 18,500 |
| Single Dry Year | 85 | 15,671 |
| Multiple Dry Year 1 | 100 | 18,500 |
| Multiple Dry Year 2 | 100 | 18,500 |
| Multiple Dry Year 3 | 85 | 15,671 |
| Multiple Dry Year 4 | 85 | 15,671 |
| Multiple Dry Year 5 | 85 | 18,500 |

*Source: Derived from SSJID 2020 UWMP, Table 7-2 Basis of Water Year Data.*

The GSP indicates that the sustainable yield of the groundwater basin is approximately 1 AFY/acre (715,000 AFY plus or minus 10 percent over the subbasin area of 1,195 square miles, an average of 0.935 AF/acre). For purposes of this Report, West Yost assumes the City will limit groundwater use to approximately 24,877 AFY (based on the projected City area at Buildout of the General Plan planning area). The projected groundwater availability is shown in Table 5. The groundwater pumping shown in Table 5 assumes the City would increase groundwater pumping as land is incorporated and removed from agricultural production.

**Table 5. Projected Groundwater Production during Hydrologic Normal, Single-Dry and Multiple-Dry Years in 2040[(a)]**

| Planning Area | Projected Groundwater Production, AFY |
|---|---|
| Current City Limits | 11,577 |
| Additional Future Planning Area | 13,300 |
| **Maximum Groundwater Supply** | **24,877** |

(a) Based on assumption that 1 AFY of groundwater is available per acre of City surface area from the Eastern San Joaquin Groundwater Subbasin Groundwater Sustainability Plan (November 2019). City area at Buildout of the General Plan Planning Area is from the City's Draft Environmental Impact Report – Manteca General Plan Update, December 2020.

The City's total potable and raw water supply is shown in Table 6.

**Table 6. Summary of Potable and Raw Water Supply During Hydrologic Normal, Single-Dry and Multiple-Dry Years[a]**

| Hydrologic Condition | Potable and Raw Water Supply at Buildout of the General Plan Area, AFY |
|---|---|
| Normal Year | 43,377 |
| Single Dry Year | 40,548 |
| Multiple Dry Year 1 | 43,377 |
| Multiple Dry Year 2 | 43,377 |
| Multiple Dry Year 3 | 40,548 |
| Multiple Dry Year 4 | 40,548 |
| Multiple Dry Year 5 | 43,377 |

(a) Surface Water Supply from Table 4 plus Assumed Groundwater Supply from Table 5.

The General Plan indicates that the City does not intend to expand recycled water use at this time. The City currently uses undisinfected secondary effluent to irrigate fodder crops in the land adjacent to the City's wastewater treatment plant. However, there is no infrastructure in place to deliver tertiary treated recycled water to retail customers. Although a Recycled Water Master Plan is being prepared with the intent that the City would use recycled water to offset potable water demands for outdoor uses in the future, recycled water infrastructure is not planned to be constructed in time to serve the buildout of the General Plan. Therefore, recycled water supplies are not assumed to be an available water supply for this letter report.

## COMPARISON OF WATER SUPPLY AND DEMAND AT BUILDOUT

A comparison of the available water supply and projected demands at buildout of the General Plan is shown in Table 7.

**Table 7. Comparison of Potable and Raw Water Demand Versus Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years**

| Hydrologic Condition | Supply and Demand Comparison, AFY<br>Buildout of General Plan Area |
|---|---|
| Normal Year | |
| Available Potable and Raw Water Supply[a] | 43,377 |
| Total Water Demand[b] | 34,224 |
| Potential Surplus (Deficit) | 9,153 |
| Supply Shortfall, Percent of Demand | - |
| Single Dry Year | |
| Available Potable and Raw Water Supply[a] | 40,548 |
| Total Water Demand[b] | 34,224 |

**Table 7. Comparison of Potable and Raw Water Demand Versus Supply During Hydrologic Normal, Single Dry, and Multiple Dry Years**

| Hydrologic Condition | | Supply and Demand Comparison, AFY<br>Buildout of General Plan Area |
|---|---|---|
| Potential Surplus (Deficit) | | 6,324 |
| Supply Shortfall, Percent of Demand | | - |
| Multiple Dry Year | | |
| Multiple Dry Year 1 | Available Potable and Raw Water Supply[(a)] | 43,377 |
| | Total Water Demand[(b)] | 34,224 |
| | Potential Surplus (Deficit) | 9,153 |
| | Supply Shortfall, Percent of Demand | - |
| Multiple Dry Year 2 | Available Potable and Raw Water Supply[(a)] | 43,377 |
| | Total Water Demand[(b)] | 34,224 |
| | Potential Surplus (Deficit) | 9,153 |
| | Supply Shortfall, Percent of Demand | - |
| Multiple Dry Year 3 | Available Potable and Raw Water Supply[(a)] | 40,548 |
| | Total Water Demand[(b)] | 34,224 |
| | Potential Surplus (Deficit) | 6,324 |
| | Supply Shortfall, Percent of Demand | - |
| Multiple Dry Year 4 | Available Potable and Raw Water Supply[(a)] | 40,548 |
| | Total Water Demand[(b)] | 34,224 |
| | Potential Surplus (Deficit) | 6,324 |
| | Supply Shortfall, Percent of Demand | - |
| Multiple Dry Year 5 | Available Potable and Raw Water Supply[(a)] | 43,377 |
| | Total Water Demand[(b)] | 34,224 |
| | Potential Surplus (Deficit) | 9,153 |
| | Supply Shortfall, Percent of Demand | - |

(a) From Table 6.
(b) Existing plus projected demand. See paragraph under Projected Water Demand.

As indicated in Table 7, based on the assumptions presented in this report, the City would have sufficient water supplies to serve development of the proposed land uses.

Thank you for this opportunity to be of continued service to you and the City of Manteca. Please let us know if you have any questions or require further information.

Sincerely,
WEST YOST

Jim Connell, PE
Principal Engineer
RCE #63052

Appendix B

# Yosemite Square Water Supply Assessment – Proposed Water System Reference Analysis

DRAFT

North Star
Engineering Group, Inc.

**Integral Communities**
**Yosemite Square**
Memorandum

**Water Supply Assessment – Proposed Water System Reference Analysis**
*April 26, 2022*

---

## I. Project Site and Description

The proposed project is approximately 137 acres located west of Austin Road, south of Yosemite Road in the City of Manteca. It is bound by Austin Road to the east, Highway 99 to the west, a combination of residential and industrial uses to the north and agricultural land to the south. The proposed project would consist of 814 for sale homes, a park/basin in the central/western portion of the project, public and private streets, a pedestrian trail system, water quality features, and required off-site street and utility connections to serve the property and surrounding areas.

## II. Proposed Potable Water System

The Development Area would be served by a new potable water distribution system. Development of the proposed potable water system will require the installation of additional water mains within the proposed roadways to comply with the 2005 City of Manteca Master Water Plan. A 12" Water Main will be constructed along the entire length of Austin Road and along the internal backbone roadway network. Additionally, a potable well site will be provided adjacent to the internal backbone roadway network within the park/basin. The Development will connect to the City of Manteca water system at two locations:

1. Extend the proposed 12" water main along north of the project limits along Austin Road for 2,500 +/- LF to an existing 12" water stub approximately 200 +/- LF south of Yosemite Avenue.
2. Extend the proposed 12" water main along south of the project limits along Austin Road for 3,000 +/- LF, then extend approximately 900 +/- LF to the west to Highway 99, bore and jack for approximately 400 +/- LF under Highway 99, and finally extend 320 +/- LF to the southwest and connect to an existing 12" water main at the intersection of Woodward Avenue and Moffatt Boulevard.

Additionally, an internally looped system of water lines will be installed within the Development Area. A water system analysis will be prepared during future design of Improvement Plans to ensure that the final design is compliant with City of Manteca fire flow and pressure standards.

The proposed water distribution system may utilize Best Management Practices (BMP) and design control features, including the following Low Impact Development (LID) measures:

1. Implementation of the City of Manteca water recycling program for irrigation of public areas.
2. Irrigation system designs may include "purple pipe" for distribution of recycled water.
3. Reduction of turf areas on lots.
4. Use of drought-resistant vegetation in landscaping on lots and public areas.
5. Use of native trees and vegetation for landscaping on lots and in public areas.

## III. Proposed Non-Potable Water System

The Development Area would include the development of an on-site non-potable water distribution system that would eventually provide irrigation water to planned parks, open space, and landscaped areas. All landscape irrigation is to be installed with non-potable components.

Connection from all irrigation systems to the non-potable water service will be provided in the proposed streets along the backbone roadway network. This connection is to be provided per the requirements of the City Water Division with a valve whether the irrigation is provided by a well or not. In the future, when the non-potable system is charged by the City, the irrigation will be provided by the non-potable water system with the irrigation well remaining as a back-up only. Irrigation shall be designed to maximize efficiency and meet the requirements of the City Parks Maintenance Division.

## IV. Proposed Phasing and Modeling Analysis

A water system analysis will be prepared with the Construction Documents to ensure that the final designs are compliant with City of Manteca fire flow and pressure standards for the Project Site. The proposed design and modeling analysis will verify that adequate fire flow and peak domestic demands are met in accordance with City Standards for each individual phase of the Project. The following design scenarios will be analyzed and included with the future construction documents for the Project:

- Fire Flow Design Scenario
- Fire Flow plus Peak Hour Domestic Demand Design Scenario

## V. Future Potable Well Site Details, Timing, and PFIP Fees

Section II provides a description of the proposed potable well site as shown in the attached exhibits. The potable well site is adjacent to the internal backbone roadway network which includes the proposed 12" water mains. Additionally, the potable well site has been over-sized per direction of City staff to provide sufficient area for both the potable well and potential treatment facilities that maybe required.

All potable wells in the City of Manteca are designed and constructed under the strict direction of City staff. The timing and need for the potable well are to be determine by City staff in in accordance with the current City of Manteca Water System Master Plans and Models. Additionally, the Project Site will pay all applicable City of Manteca Well Water PFIP fees which includes the Groundwater Supply Fee which will generate funds to pay for the construction of the potable well.

## VI. Conclusion

The proposed Project Site will provide an adequate potable and non-potable water distribution systems in strict accordance with City of Manteca Standards and Specification. Furthermore, the Project will provide an oversized lot to facility the construction of a future potable well. Finally, the project site will construct a non-potable irrigation well to reduce the landscape demand from the project.

Anthony P. de Melo PE #71387
NorthStar Engineering Group, Inc.

# YOSESMITE SQUARE
## POTABLE WATER SYSTEM EXHIBIT

MANTECA, CALIFORNIA

APRIL 26, 2022

NorthStar
Engineering Group, Inc.
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620 12th Street Modesto, CA 95354
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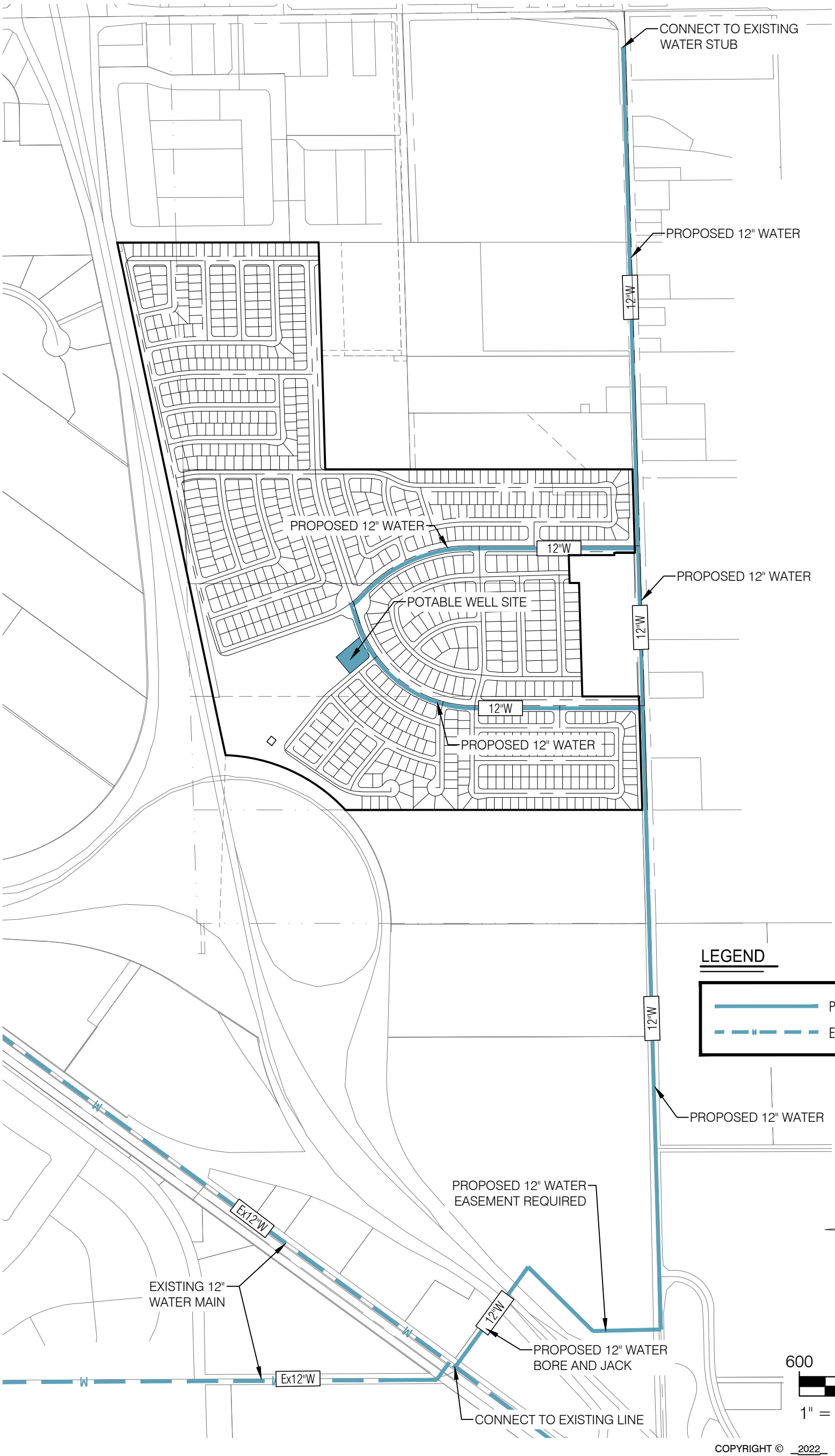


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# YOSESMITE SQUARE
## NON-POTABLE WATER SYSTEM EXHIBIT

MANTECA, CALIFORNIA

APRIL 26, 2022

NorthStar
Engineering Group, Inc.
• CIVIL ENGINEERING • SURVEYING • PLANNING •
620 12th Street Modesto, CA 95354
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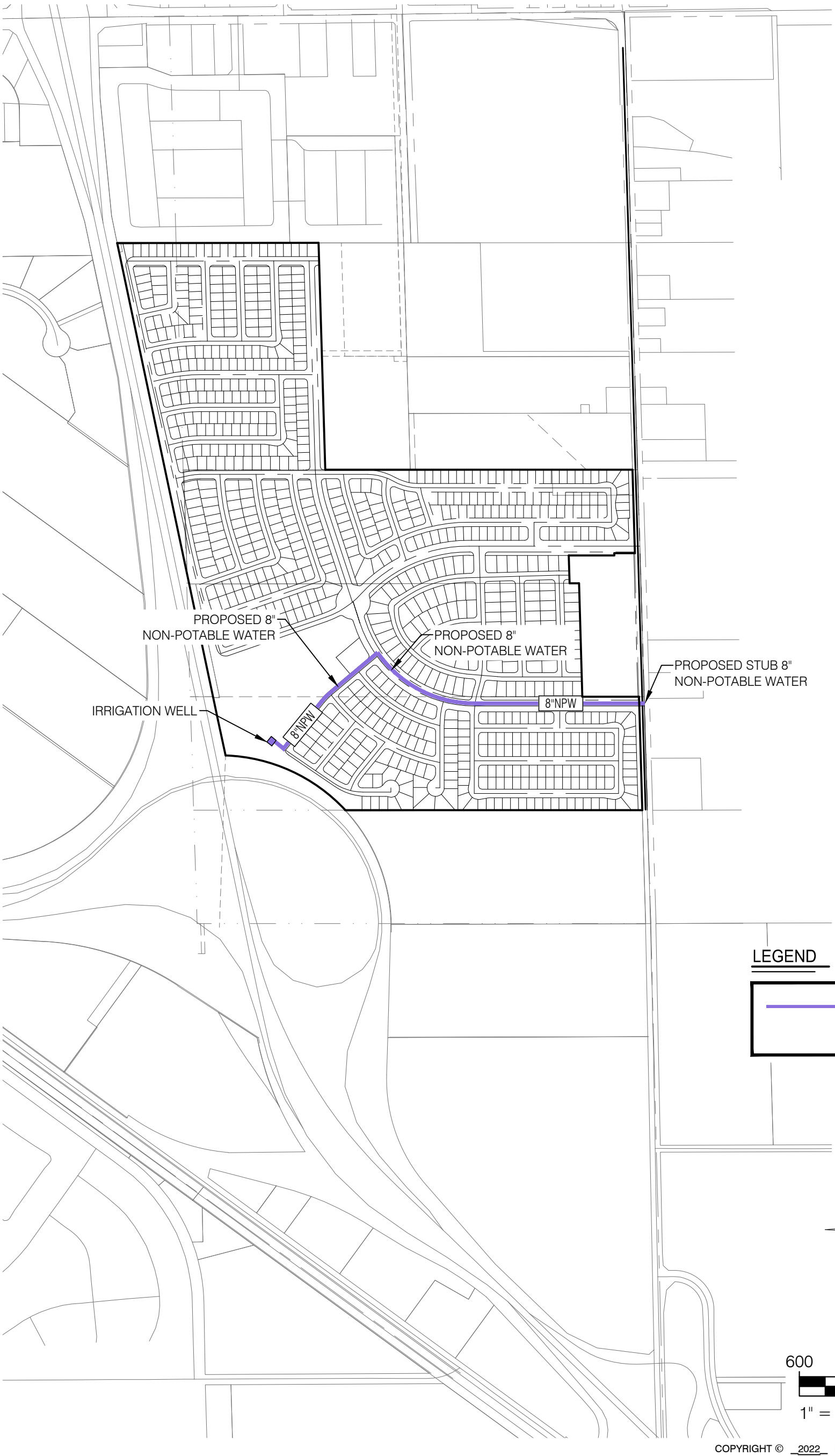


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# APPENDIX F

## ENVIRONMENTAL NOISE ASSESSMENT AND ALTERNATIVE SITE PLAN MEMO

# Environmental Noise Assessment

# Yosemite Square Residential

**City of Manteca, California**

**March 25, 2022**

**Project #220118**

**Prepared for:**

**Raney Planning & Management**
1501 Sports Drive, Suite A
Sacramento, CA 95834

**Prepared by:**


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## INTRODUCTION

The Yosemite Square Residential project consists of the development of a 757-lot residential subdivision. The project is located south of Yosemite Avenue and east of Highway 99 in the City of Manteca, California.

**Figure 1** shows the project site plan. **Figure 2** shows an aerial photo of the project site and noise measurement locations.

## ENVIRONMENTAL SETTING

### BACKGROUND INFORMATION ON NOISE

#### *Fundamentals of Acoustics*

Acoustics is the science of sound. Sound may be thought of as mechanical energy of a vibrating object transmitted by pressure waves through a medium to human (or animal) ears. If the pressure variations occur frequently enough (at least 20 times per second), then they can be heard and are called sound. The number of pressure variations per second is called the frequency of sound, and is expressed as cycles per second or Hertz (Hz).

Noise is a subjective reaction to different types of sounds. Noise is typically defined as (airborne) sound that is loud, unpleasant, unexpected or undesired, and may therefore be classified as a more specific group of sounds. Perceptions of sound and noise are highly subjective from person to person.

Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals), as a point of reference, defined as 0 dB. Other sound pressures are then compared to this reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB, and changes in levels (dB) correspond closely to human perception of relative loudness.

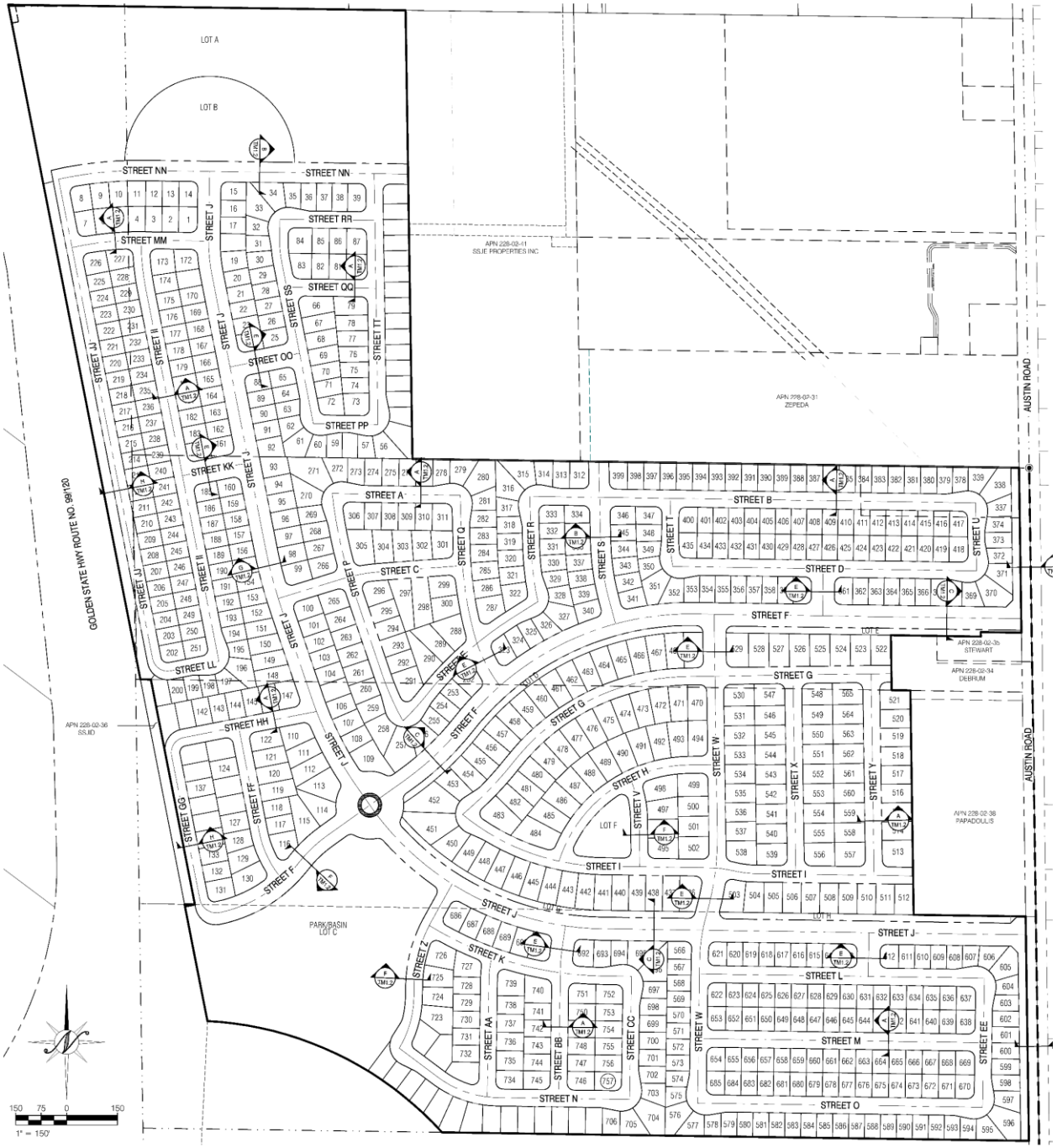
The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable, and can be approximated by A-weighted sound levels. There is a strong correlation between A-weighted sound levels (expressed as dBA) and the way the human ear perceives sound. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment.

# Yosemite Square Residential

**City of Manteca, California**

**Figure 1**

**Project Site Plan**



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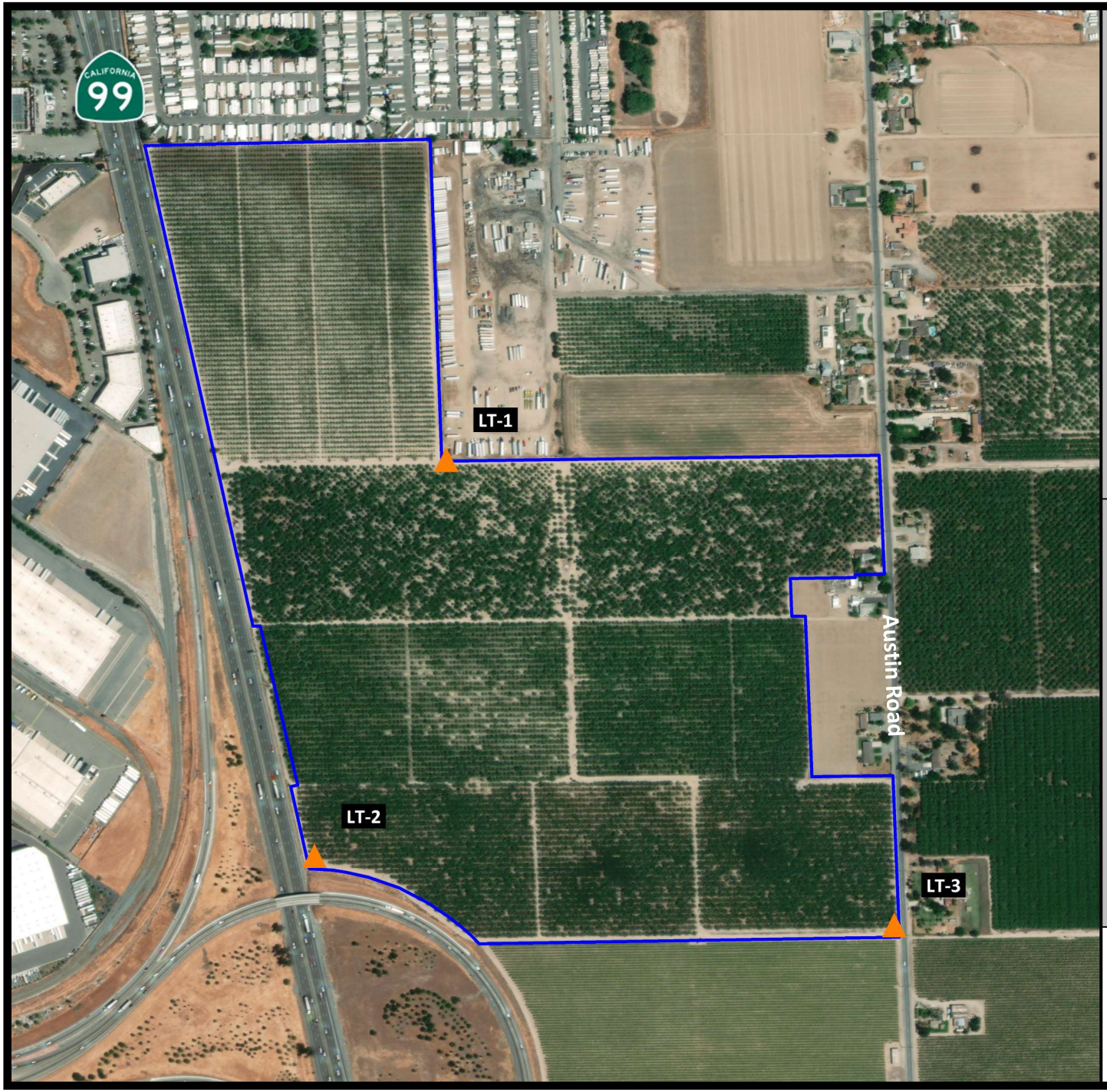


# Yosemite Square Residential

City of Manteca, California

Figure 2

Noise Measurement Sites

**Legend**

- Project Site
- Noise Measurement - Long Term

0 ft 500 ft 1000 ft

Projection: UTM Zone 10 / WGS84 / meters
Rev. Date: 02/28/2022

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The decibel scale is logarithmic, not linear. In other words, two sound levels 10-dB apart differ in acoustic energy by a factor of 10. When the standard logarithmic decibel is A-weighted, an increase of 10-dBA is generally perceived as a doubling in loudness. For example, a 70-dBA sound is half as loud as an 80-dBA sound, and twice as loud as a 60 dBA sound.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given environment. A common statistical tool is the average, or equivalent, sound level ($L_{eq}$), which corresponds to a steady-state A weighted sound level containing the same total energy as a time varying signal over a given time period (usually one hour). The $L_{eq}$ is the foundation of the composite noise descriptor, $L_{dn}$, and shows very good correlation with community response to noise.

The day/night average level (DNL or $L_{dn}$) is based upon the average noise level over a 24-hour day, with a +10-decibel weighing applied to noise occurring during nighttime (10:00 p.m. to 7:00 a.m.) hours. The nighttime penalty is based upon the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because $L_{dn}$ represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

**Table 1** lists several examples of the noise levels associated with common situations. **Appendix A** provides a summary of acoustical terms used in this report.

**TABLE 1: TYPICAL NOISE LEVELS**

| Common Outdoor Activities | Noise Level (dBA) | Common Indoor Activities |
|---|---|---|
| | --110-- | Rock Band |
| Jet Fly-over at 300 m (1,000 ft.) | --100-- | |
| Gas Lawn Mower at 1 m (3 ft.) | --90-- | |
| Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph) | --80-- | Food Blender at 1 m (3 ft.)<br>Garbage Disposal at 1 m (3 ft.) |
| Noisy Urban Area, Daytime<br>Gas Lawn Mower, 30 m (100 ft.) | --70-- | Vacuum Cleaner at 3 m (10 ft.) |
| Commercial Area<br>Heavy Traffic at 90 m (300 ft.) | --60-- | Normal Speech at 1 m (3 ft.) |
| Quiet Urban Daytime | --50-- | Large Business Office<br>Dishwasher in Next Room |
| Quiet Urban Nighttime | --40-- | Theater, Large Conference Room (Background) |
| Quiet Suburban Nighttime | --30-- | Library |
| Quiet Rural Nighttime | --20-- | Bedroom at Night, Concert Hall (Background) |
| | --10-- | Broadcast/Recording Studio |
| Lowest Threshold of Human Hearing | --0-- | Lowest Threshold of Human Hearing |

*Source: Caltrans, Technical Noise Supplement, Traffic Noise Analysis Protocol. September, 2013.*

***Effects of Noise on People***

The effects of noise on people can be placed in three categories:

- Subjective effects of annoyance, nuisance, and dissatisfaction
- Interference with activities such as speech, sleep, and learning
- Physiological effects such as hearing loss or sudden startling

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the last category. There is no completely satisfactory way to measure the subjective effects of noise or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists and different tolerances to noise tend to develop based on an individual's past experiences with noise.

Thus, an important way of predicting a human reaction to a new noise environment is the way it compares to the existing environment to which one has adapted: the so-called ambient noise level. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will be judged by those hearing it.

With regard to increases in A-weighted noise level, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1-dBA cannot be perceived;
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference;
- A change in level of at least 5-dBA is required before any noticeable change in human response would be expected; and
- A 10-dBA change is subjectively heard as approximately a doubling in loudness, and can cause an adverse response.

Stationary point sources of noise – including stationary mobile sources such as idling vehicles – attenuate (lessen) at a rate of approximately 6-dB per doubling of distance from the source, depending on environmental conditions (i.e. atmospheric conditions and either vegetative or manufactured noise barriers, etc.). Widely distributed noises, such as a large industrial facility spread over many acres, or a street with moving vehicles, would typically attenuate at a lower rate.

## EXISTING AND FUTURE NOISE AND VIBRATION ENVIRONMENTS

The existing noise environment in the project area is primarily defined by traffic noise from Highway 99 and Austin Road. Secondary noise sources include the A.C. Trucking yard to the northeast of the project site. To quantify the existing ambient noise environment in the project vicinity, Saxelby Acoustics conducted a continuous (24-hr.) noise level measurement at three locations on the project site. Noise measurement locations are shown on **Figure 2**. A summary of the noise level measurement survey results is provided in **Table 2**. **Appendix B** contains the complete results of the noise monitoring.

The sound level meters were programmed to record the maximum, median, and average noise levels at each site during the survey. The maximum value, denoted $L_{max}$, represents the highest noise level measured. The average value, denoted $L_{eq}$, represents the energy average of all of the noise received by the sound level meter microphone during the monitoring period. The median value, denoted $L_{50}$, represents the sound level exceeded 50 percent of the time during the monitoring period.

Larson Davis Laboratories (LDL) model 820 precision integrating sound level meters were used for the ambient noise level measurement survey. The meters were calibrated before and after use with a B&K Model 4230 acoustical calibrator to ensure the accuracy of the measurements. The equipment used meets all pertinent specifications of the American National Standards Institute for Type 1 sound level meters (ANSI S1.4).

**TABLE 2: SUMMARY OF EXISTING BACKGROUND NOISE MEASUREMENT DATA**

| Location | Date | $L_{dn}$ | Daytime $L_{eq}$ | Daytime $L_{50}$ | Daytime $L_{max}$ | Nighttime $L_{eq}$ | Nighttime $L_{50}$ | Nighttime $L_{max}$ |
|---|---|---|---|---|---|---|---|---|
| LT-1: Truck Yard | 2/9/22 | 68 | 60 | 59 | 70 | 62 | 60 | 69 |
| LT-2: 120 feet to CL of Hwy. 99 | 2/9/22 | 79 | 75 | 74 | 92 | 72 | 69 | 87 |
| LT-2: 35 feet to CL of Austin Road | 2/9/22 | 71 | 68 | 60 | 84 | 64 | 58 | 84 |

Notes:

- All values shown in dBA
- Daytime hours: 7:00 a.m. to 10:00 p.m.
- Nighttime Hours: 10:00 p.m. to 7:00 a.m.
- Source: Saxelby Acoustics 2022

## REGULATORY CONTEXT

### FEDERAL

There are no federal regulations related to noise that apply to the Proposed Project.

### STATE

There are no state regulations related to noise that apply to the Proposed Project.

### LOCAL

#### *City of Manteca General Plan*

Exterior and interior noise standards for residential land uses are established within the City of Manteca General Plan Noise Element. Policies contained in the Noise Element applicable to the proposed project include:

#### *The City of Manteca General Plan – Existing (2003) General Plan*

The City of Manteca General Plan Noise Element contains goals, policies, and implementation measures for assessing noise impacts within the City. Listed below are the noise goals, policies, and implementation measures that are applicable to the proposed Project (City of Manteca as amended through 2016):

**GOALS: NOISE**

- N-1. Protect the residents of Manteca from the harmful and annoying effects of exposure to excessive noise.
- N-3. Ensure that the downtown core noise levels remain acceptable and compatible with commercial and higher density residential land uses.
- N-4. Protect public health and welfare by eliminating existing noise problems where feasible, by establishing standards for acceptable indoor and outdoor noise, and by preventing significant increases in noise levels.
- N-5. Incorporate noise considerations into land use planning decisions, and guide the location and design of transportation facilities to minimize the effects of noise on adjacent land uses.

**POLICIES: NOISE**

- N-P-2. New development of residential or other noise-sensitive land uses will not be permitted in noise-impacted areas unless effective mitigation measures are incorporated into the project design to satisfy the performance standards in Table 9-1 [**Table 3**].

**TABLE 3: MAXIMUM ALLOWABLE NOISE EXPOSURE MOBILE NOISE SOURCES**

| Land Use[4] | Outdoor Activity Areas[1] | Interior Spaces | |
|---|---|---|---|
| | | Ldn/CNEL, dB | Leq/CNEL, dB[3] |
| Residential | 60[2] | 45 | -- |
| Transient Lodging | 60[2] | 45 | -- |
| Hospitals, Nursing Homes | 60[2] | 45 | -- |
| Theatres, Auditoriums, Music Halls | -- | -- | 35 |
| Churches, Music Halls | 60[2] | -- | 40 |
| Office Buildings | 65 | -- | 45 |
| Schools, Libraries, Museums | -- | -- | 45 |
| Playgrounds, Neighborhood Parks | 70 | -- | -- |

**Notes: [1] Outdoor activity areas for residential development are considered to be backyard patios or decks of single family dwellings, and the common areas where people generally congregate for multi-family developments. Outdoor activity areas for non-residential developments are considered to be those common areas where people generally congregate, including pedestrian plazas, seating areas, and outside lunch facilities. Where the location of outdoor activity areas is unknown, the exterior noise level standard shall be applied to the property line of the receiving land use.**
**[2] In areas where it is not possible to reduce exterior noise levels to 60 dB $L_{dn}$ or below using a practical application of the best noise-reduction technology, an exterior noise level of up to 65 $L_{dn}$ will be allowed.**
**[3] Determined for a typical worst-case hour during periods of use.**
**[4] Where a proposed use is not specifically listed on the table, the use shall comply with the noise exposure standards for the nearest similar use as determined by the City.**
**Source: City of Manteca General Plan, Noise Element, Table 9-1.**

- N-P-3. The City may permit the development of new noise-sensitive uses only where the noise level due to fixed (non-transportation) noise sources satisfies the noise level standards of Table 9-2 [**Table 4**]. Noise mitigation may be required to meet Table 9-2 [**Table 4**] performance standards.

**TABLE 4: PERFORMANCE STANDARDS FOR STATIONARY NOISE SOURCES OR PROJECTS AFFECTED BY STATIONARY NOISE SOURCES [1,2]**

| Noise Level Descriptor | Daytime (7 AM – 10 PM) | Nighttime (10 PM – 7 AM) |
|---|---|---|
| Hourly $L_{eq}$, dB | 50 | 45 |
| Maximum Level, dB | 70 | 65 |

**Notes: [1] Each of the noise levels specified above should be lowered by five (5) dB for simple noise tones, noises consisting primarily of speech or music, or recurring impulsive noises. Such noises are generally considered by residents to be particularly annoying and are a primary source of noise complaints.**
**[2] No standards have been included for interior noise levels. Standard construction practices should, with the exterior noise levels identified, result in acceptable interior noise levels.**
**Source: City of Manteca General Plan, Noise Element, Table 9-2.**

- N-P-5. In accord with the Table 9-2 [**Table 4**] standards, the City shall regulate construction-related noise impacts on adjacent uses.

**IMPLEMENTATION MEASURES: NOISE**

- N-I-1. New development in residential areas with an actual or projected exterior noise level of greater than 60 dB $L_{dn}$ will be conditioned to use mitigation measures to reduce exterior noise levels to less than or equal to 60 dB $L_{dn}$.
- N-I-3. In making a determination of impact under the California Environmental Quality Act (CEQA), a substantial increase will occur if ambient noise levels are increased by 10 dB or more. An increase from 5-10 dB may be substantial. Factors to be considered in determining the significance of increases from 5-10 dB include:
    - the resulting noise levels
    - the duration and frequency of the noise
    - the number of people affected
    - the land use designation of the affected receptor sites
    - public reactions or controversy as demonstrated at workshops or hearings, or by correspondence
    - prior CEQA determinations by other agencies specific to the project
- N-I-4. Control noise at the source through use of insulation, berms, building design and orientation, buffer space, staggered operating hours and other techniques. Use noise barriers to attenuate noise to acceptable levels.

### *The City of Manteca General Plan – Proposed General Plan Update*

It is expected that the City's General Plan update may be adopted prior to the approval of the 320 Airport Way project. Therefore, the goals and policies of the proposed General Plan are also considered in this document. The City of Manteca General Plan Update noise goals, policies, and implementation measures are included below:

**GOALS**

Goal S-5: Protect the quality of life by protecting the community from harmful and excessive noise.

**POLICIES**

S-5.1 Incorporate noise considerations into land use, transportation, and infrastructure planning decisions, and guide the location and design of noise-producing uses to minimize the effects of noise on adjacent noise-sensitive land uses, including residential uses and schools.

S-5.2 Ensure that Downtown noise levels remain acceptable and compatible with a pedestrian-oriented environment and higher density residential land uses.

S-5.3 Areas within Manteca exposed to existing or projected exterior noise levels from mobile noise sources exceeding the performance standards in Table S-1 (**Table 5**) shall be designated as

noise-impacted areas.

S-5.4 Require residential and other noise-sensitive development projects to satisfy the noise level criteria in Tables S-1 and S-2.

S-5.5 Require new stationary noise sources proposed adjacent to noise sensitive uses to be mitigated so as to not exceed the noise level performance standards in Table S-2 (**Table 6**), or a substantial increase in noise levels established through a detailed ambient noise survey.

S-5.6 Regulate construction-related noise to reduce impacts on adjacent uses to the criteria identified in Table S-2 (**Table 6**) or, if the criteria in Table S-2 (**Table 6**) cannot be met, to the maximum level feasible using best management practices and complying with the MMC Chapter 9.52.

S-5.7 Where the development of residential or other noise-sensitive land use is proposed for a noise-impacted area or where the development of a stationary noise source is proposed in the vicinity of noise-sensitive uses, an acoustical analysis is required as part of the environmental review process so that noise mitigation may be considered in the project design. The acoustical analysis shall:

- Be the responsibility of the applicant.
- Be prepared by a qualified acoustical consultant experienced in the fields of environmental noise assessment and architectural acoustics.
- Include representative noise level measurements with sufficient sampling periods and locations to adequately describe local conditions and the predominant noise sources.
- Estimate existing and projected (20 years) noise levels in terms of the standards of Table S-1 (**Table 5**) or Table S-2 (**Table 6**), and compare those levels to the adopted policies of the Noise Element.
- Recommend appropriate mitigation measures to achieve compliance with the adopted policies and standards of the Noise Element.
- Estimate noise exposure after the prescribed mitigation measures have been implemented.
- If necessary, describe a post-project assessment program to monitor the effectiveness of the proposed mitigation measures.

S-5.8 Apply noise level criteria applied to land uses other than residential or other noise-sensitive uses consistent with noise performance levels of Table S-1 (**Table 5**) and Table S-2 (**Table 6**).

S-5.9 Enforce the Sound Transmission Control Standards of the California Building Code concerning the construction of new multiple occupancy dwellings such as hotels, apartments, and condominiums.

S-5.10 Ensure that new equipment and vehicles purchased by the City comply with noise level

performance standards consistent with the best available noise reduction technology.

S-5.11 Require the Manteca Police Department to actively enforce requirements of the California Vehicle Code relating to vehicle mufflers and modified exhaust systems.

S-5.12 For new residential development backing on to a freeway or railroad right-of-way, the developer shall be required to provide appropriate mitigation measures to satisfy the performance standards in Table S-1 (**Table 5**).

S-5.13 It is recognized that the City and surrounding areas are considered to be urban in nature and rely upon both the industrial and agricultural economy of the area. Therefore, it is recognized that noise sources of existing uses may exceed generally accepted standards.

S-5.14 Carefully review and give potentially affected residents an opportunity to fully review any proposals for the establishment of helipads or heliports.

S-5.15 Recognizing that existing noise-sensitive uses may be exposed to increase noise levels due to circulation improvement projects associated with development under the General Plan and that it may not be feasible to reduce increased traffic noise levels to the criteria identified in Table S-1 (**Table 5**), the following criteria may be used to determine the significance of noise impacts associated with circulation improvement projects:

- Where existing traffic noise levels are less than 60 dB Ldn at the outdoor activity areas of noise-sensitive uses, a +5 dB Ldn increase in noise levels due to roadway improvement projects will be considered significant; and
- Where existing traffic noise levels range between 60 and 65 dB Ldn at the outdoor activity areas of noise-sensitive uses, a +3 dB Ldn increase in noise levels due to roadway improvement projects will be considered significant; and
- Where existing traffic noise levels are greater than 65 dB Ldn at the outdoor activity areas of noise-sensitive uses, a + 1.5 dB Ldn increase in noise levels due to roadway improvement projects will be considered significant.

S-5.16 Work with the Federal Railroad Administration and passenger and freight rail operators to reduce exposure to rail and train noise, including establishing train horn "quiet zones" consistent with the federal regulations.

**IMPLEMENTATION**

*S-5a Require an acoustical analysis that complies with the requirements of S-5.7 where:*

- *Noise sensitive land uses are proposed in areas exposed to existing or projected noise levels exceeding the levels specified in Table S-1 (**Table 5**) or S-2 (**Table 6**).*
- *Proposed transportation projects are likely to produce noise levels exceeding the levels specified in Table S-1 (**Table 5**) or S-2 (**Table 6)** at existing or planned noise sensitive uses.*

*S-5b Assist in enforcing compliance with noise emissions standards for all types of vehicles,*

*established by the California Vehicle Code and by federal regulations, through coordination with the Manteca Police Department and the California Highway Patrol.*

*S-5c* *Update the City's Noise Ordinance (Chapter 9.52) to reflect the noise standards established in this Noise Element and proactively enforce the City's Noise Ordinance, including requiring the following measures for construction:*

- *Restrict construction activities to the hours of 7:00 a.m. to 7:00 p.m. on Monday through Friday, and 8:00 a.m. to 6:00 p.m. on Saturdays. No construction shall be permitted outside of these hours or on Sundays or federal holidays, without a specific exemption issued by the City.*
- *A Construction Noise Management Plan shall be submitted by the applicant for construction projects, when determined necessary by the City. The Construction Noise Management Plan shall include proper posting of construction schedules, appointment of a noise disturbance coordinator, and methods for assisting in noise reduction measures.*
- *Noise reduction measures may include, but are not limited to, the following:*
  - *a. Equipment and trucks used for project construction shall utilize the best available noise control techniques (e.g., improved mufflers, equipment redesign, use of intake silencers, ducts, engine enclosures and acoustically attenuating shields or shrouds) wherever feasible.*
  - *b. Except as provided herein, impact tools (e.g., jack hammers, pavement breakers, and rock drills) used for project construction shall be hydraulically or electrically powered to avoid noise associated with compressed air exhaust from pneumatically powered tools. However, where use of pneumatic tools is unavoidable, an exhaust muffler on the compressed air exhaust shall be used. This muffler can lower noise levels from the exhaust by up to about 10 dBA. External jackets on the tools themselves shall be used, if such jackets are commercially available. this could achieve a reduction of 5 dBA. Quieter procedures shall be used, such as drills rather than impact equipment, whenever such procedures are available and consistent with construction procedures.*
  - *c. Temporary power poles shall be used instead of generators where feasible.*
  - *d. Stationary noise sources shall be located as far from adjacent properties as possible, and they shall be muffled and enclosed within temporary sheds, incorporate insulation barriers, or use other measures as determined by the City of provide equivalent noise reduction.*
  - *e. The noisiest phases of construction shall be limited to less than 10 days at a time. Exceptions may be allowed if the City determines an extension is necessary and all available noise reduction controls are implemented.*
  - *f. Delivery of materials shall observe the hours of operation described above.*
  - g. *Truck traffic should avoid residential areas to the extent possible.*

*S-5d* *In making a determination of impact under the California Environmental Quality Act (CEQA), a*

*substantial increase will occur if ambient noise levels are have a substantial increase. Generally, a 3 dB increase in noise levels is barely perceptible, and a 5 dB increase in noise levels is clearly perceptible. Therefore, increases in noise levels shall be considered to be substantial when the following occurs:*

- *When existing noise levels are less than 60 dB, a 5 dB increase in noise will be considered substantial;*
- *When existing noise levels are between 60 dB and 65 dB, a 3 dB increase in noise will be considered substantial;*
- *When existing noise levels exceed 65 dB, a 1.5 dB increase in noise will be considered substantial.*

*Additional or alternative criteria can be used for determining a substantial increase in noise levels. For instance, if the overall increase in noise levels occurs where no noise-sensitive uses are located, then the City may use their discretion in determining if there is any impact at all. In such a case, the following alternative factors may be used for determining a substantial increase in noise levels:*

- *the resulting noise levels;*
- *the duration and frequency of the noise;*
- *the number of people affected;*
- *conforming or non-conforming land uses;*
- *the land use designation of the affected receptor sites;*
- *public reactions or controversy as demonstrated at workshops or hearings, or by correspondence; and*
- *prior CEQA determinations by other agencies specific to the project.*

*S-5e* *Control noise at the source through use of insulation, berms, building design and orientation, buffer space, staggered operating hours, and similar techniques. Where such techniques would not meet acceptable levels, use noise barriers to attenuate noise associated with new noise sources to acceptable levels.*

*S-5f* *Require that all noise-attenuating features are designed to be attractive and to minimize maintenance.*

*S-5g* *Evaluate new transportation projects, such as truck routes, rail or public transit routes, and transit stations, using the standards contained in Table S-1 (**Table 5**). However, noise from these projects may be allowed to exceed the standards contained in Table S-1 (**Table 5**), if the City Council finds that there are special overriding circumstances.*

*S-5h* *Work with the Federal Rail Authority and passenger and freight rail service providers to establish a Quiet Zone at at-grade crossings in the City. Where new development would be*

*affected by the train and rail noise, require project applicants to fund a fair-share of: a) studies associated with the application for a Quiet Zone, and b) alternative safety measures associated with the Quiet Zone (including, but not limited to signage, gates, lights, etc.).*

*S-5i* *Work in cooperation with Caltrans, the Union Pacific Railroad, San Joaquin Regional Rail Commission, and other agencies where appropriate to maintain noise level standards for both new and existing projects in compliance with Table S-1 (**Table 5**).*

*S-5j* *The City shall require new residential projects located adjacent to major freeways, truck routes, hard rail lines, or light rail lines to follow the FTA screening distance criteria to ensure that groundborne vibrations to do not exceed acceptable levels.*

**TABLE 5: MAXIMUM ALLOWABLE NOISE EXPOSURE FROM MOBILE NOISE SOURCES**

| Land Use[1] | Outdoor Activity Areas[2,3] | Interior Spaces | |
|---|---|---|---|
| | | Ldn/ CNEL, dBA | Leq, dBA[4] |
| Residential | 60 | 45 | - |
| Motels/Hotels | 65 | 45 | - |
| Mixed-Use | 65 | 45 | |
| Hospitals, Nursing Homes | 60 | 45 | - |
| Theaters, Auditoriums | - | - | 35 |
| Churches | 60 | - | 40 |
| Office Buildings | 65 | - | 45 |
| Schools, Libraries, Museums | 70 | - | 45 |
| Playgrounds, Neighborhood Parks | 70 | - | - |
| Industrial | 75 | - | 45 |
| Golf Courses, Water Recreation | 70 | - | - |

*[1]Where a proposed use is not specifically listed, the use shall comply with the standards for the most similar use as determined by the City.*

*[2]Outdoor activity areas for residential development are considered to be the back yard patios or decks of single family units and the common areas where people generally congregate for multi-family developments. Where common outdoor activity areas for multi-family developments comply with the outdoor noise level standard, the standard will not be applied at patios or decks of individual units provided noise-reducing measures are incorporated (e.g., orientation of patio/deck, screening of patio with masonry or other noise-attenuating material). Outdoor activity areas for non-residential developments are the common areas where people generally congregate, including pedestrian plazas, seating areas, and outside lunch facilities; not all residential developments include outdoor activity areas.*

*[3]In areas where it is not possible to reduce exterior noise levels to achieve the outdoor activity area standard w using a practical application of the best noise-reduction technology, an increase of up to 5 Ldn over the standard will be allowed provided that available exterior noise reduction measures have been implemented and interior noise levels are in compliance with this table*

*[4]Determined for a typical worst-case hour during periods of use.*

**TABLE 6: PERFORMANCE STANDARDS FOR STATIONARY NOISE SOURCES**

| Noise Level Descriptor | Daytime | Nighttime |
|---|---|---|
| | 7 am to 10 pm | 10 pm to 7 am |
| Hourly Leq, dBA | 55 | 45 |

*[1]Each of the noise levels specified above should be lowered by 5 dB for simple noise tones, noises consisting primarily of speech or music, or recurring impulsive noises. Such noises are generally considered to be particularly annoying and are a primary source of noise complaints.*

*[2]No standards have been included for interior noise levels. Standard construction practices should, with the exterior noise levels identified, result in acceptable interior noise levels.*

*[3]Stationary noise sources which are typically of concern include, but are not limited to, the following:*

| | |
|---|---|
| *HVAC Systems* | *Cooling Towers/Evaporative Condensers* |
| *Pump Stations* | *Lift Stations* |
| *Emergency Generators* | *Boilers* |
| *Steam Valves* | *Steam Turbines* |
| *Generators* | *Fans* |
| *Air Compressors* | *Heavy Equipment* |
| *Conveyor Systems* | *Transformers* |
| *Pile Drivers* | *Grinders* |
| *Drill Rigs* | *Gas or Diesel Motors* |
| *Welders* | *Cutting Equipment* |
| *Outdoor Speakers* | *Blowers* |

*[4]The types of uses which may typically produce the noise sources described above include but are not limited to: industrial facilities, pump stations, trucking operations, tire shops, auto maintenance shops, metal fabricating shops, shopping centers, drive-up windows, car washes, loading docks, public works projects, batch plants, bottling and canning plants, recycling centers, electric generating stations, race tracks, landfills, sand and gravel operations, and athletic fields.*

### *City of Manteca Municipal Code Noise Ordinance*

Section 9.52.030 of the City of Manteca Municipal Code prohibits excessive or annoying noise or vibration to residential and commercial properties in the City. The following general rules are outline in the ordinance:

**9.52.030 PROHIBITED NOISES—GENERAL STANDARD**

No person shall make, or cause to suffer, or permit to be made upon any public property, public right-of-way or private property, any unnecessary and unreasonable noises, sounds or vibrations which are physically annoying to reasonable persons of ordinary sensitivity or which are so harsh or so prolonged or unnatural or unusual in their use, time or place as to cause or contribute to the unnecessary and unreasonable discomfort of any persons within the neighborhood from which said noises emanate or which interfere with the peace and comfort of residents or their guests, or the operators or customers in

places of business in the vicinity, or which may detrimentally or adversely affect such residences or places of business. (Ord. 1374 § 1(part), 2007)

**17.58.050 D. EXEMPT ACTIVITIES**

8. Construction activities when conducted as part of an approved Building Permit, except as prohibited in Subsection 17.58.050(E)(1) (Prohibited Activities) below.

**17.58.050 E. PROHIBITED ACTIVITIES**

1. Construction Noise. Operating or causing the operation of tools or equipment on private property used in alteration, construction, demolition, drilling, or repair work daily between the hours of 7:00 p.m. and 7:00 a.m., so that the sound creates a noise disturbance across a residential property line, except for emergency work of public service utilities.

## EVALUATION OF TRANSPORTATION NOISE

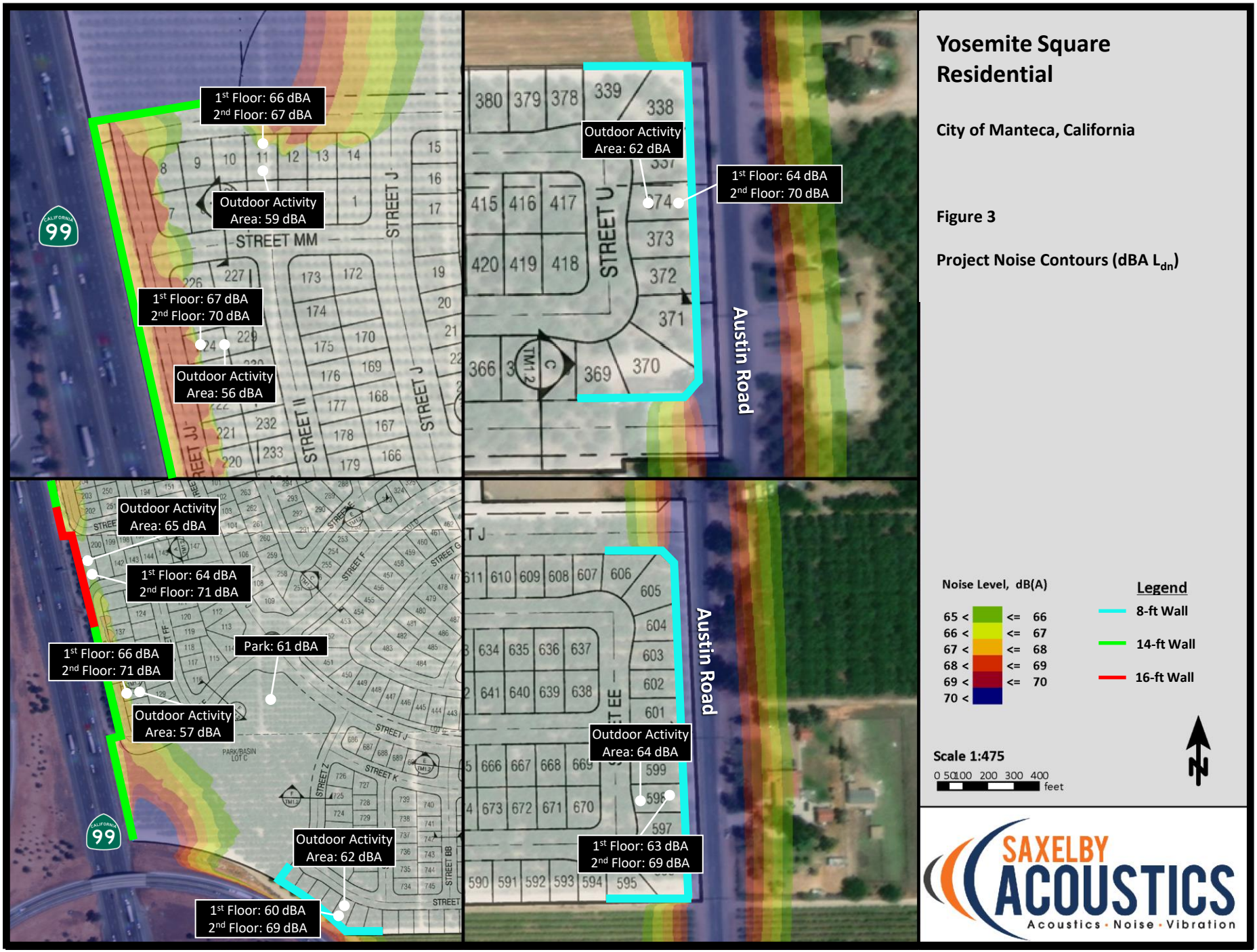
### *Off-Site Traffic Noise Increases*

In 2012, the Final Initial Study/Mitigated Negative Declaration (IS/MND) was completed for Yosemite Square Master Plan with approved land uses including residential neighborhoods, business park, and parks. The proposed rezone would result in an approximately 40% lower trip generation than the existing zoning. Therefore, relative to the existing zoning, traffic operations documented in the IS/MND would be similar to or improved with the proposed rezone. This would also result in off-site traffic noise levels less than, or similar to, that predicted under the previous IS/MND. Therefore, off-site traffic noise is not considered further.

### *Exterior Noise on Project*

To assess transportation noise on the project site, Saxelby Acoustics utilized field-collected noise level data for Highway 99 and Austin Road. A noise level of 79 dBA $L_{dn}$ was measured at a location 120 feet from the centerline of Highway 99 and a level of 71 dBA was measured at a distance of 35 feet from the centerline of Austin Road. Each of these roadways is expected to increase by +1.0 dBA based upon an assumed 1% increase in traffic volumes per year. The proposed residential uses are located approximately 175 feet from the centerline of Highway 99 and 70 feet from the centerline of Austin Road. At these distances, the proposed residential uses would be exposed to noise levels greater than the City of Manteca exterior noise level standard of 60 dBA $L_{dn}$. Therefore, noise control barriers would be required to reduce traffic noise to acceptable levels.

As shown on **Figure 3**, sound walls ranging in height from 14 feet to 16 feet are required to reduce transportation noise levels emanating from Highway 99. 8-foot-tall sound walls are required along Austin Road and the freeway ramp at the southwest corner of the project site. It should be noted that the City of Manteca allows the exterior noise level standard to be raised to 65 dBA $L_{dn}$ where it is not possible to reduce noise levels to below 60 dBA $L_{dn}$ using a practical application of best noise-reduction technology. Implementation of these sound walls will reduce noise levels at outdoor activity areas to 65 dBA $L_{dn}$ or lower.




# Yosemite Square Residential

**City of Manteca, California**

**Figure 3**

**Project Noise Contours (dBA $L_{dn}$)**

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***Interior Noise on Project***

Modern building construction methods typically yield an exterior-to-interior noise level reduction of 25 dBA. Therefore, where exterior noise levels are 70 dBA $L_{dn}$, or less, no additional interior noise control measures are typically required. For this project, exterior noise levels are predicted to be less than 65 dBA $L_{dn}$ at first floor locations and up to 71 dBA $L_{dn}$ at second floor locations. This would result in interior noise levels of less than 40 dBA $L_{dn}$ at first floor receivers and 46 dBA at second floor receivers based on typical building construction. This exceeds with the City of Manteca General Plan Policy 12-P-6 which requires incorporation of mitigation measures where transportation noise levels exceed 65 dBA $L_{dn}$ to ensure that interior noise levels do not exceed 45 dB $L_{dn}$.

***Analysis of Interior Noise Control Measures***

In order to calculate interior noise levels for the actual project construction, it is necessary to determine the noise reduction provided by the residential building facades. This may be calculated by using a measured A-weighted noise frequency spectrum for arterial road traffic. The composite transmission loss and resulting noise level in the receiving room is first determined. After correcting for room absorption, the overall noise level in the room is calculated.

Based upon the exterior transportation noise levels along Highway 99 of 71 dBA $L_{dn}$, an exterior-to-interior noise level reduction of 26 dBA would be required to meet the City of Manteca standards. Saxelby Acoustics determined the necessary noise control measures to achieve this noise level reduction. However, this level is an estimate and must be verified once floor plans become available. **Appendix C** shows an estimate of the interior noise control measures. The noise control measures are summarized below:

- Building facades shall include use of stucco with exterior sheathing and a resilient channel for hanging interior gypsum board;
- STC 34 minimum rated glazing shall be used;
- Interior gypsum wallboards and gypsum ceiling shall be 5/8";
- Saxelby Acoustics recommends that mechanical ventilation penetrations for exhaust fans not face toward Highway 99. Where feasible, these vents should be routed towards the opposite side of the building to minimize sound intrusion to sensitive areas of the buildings.
- Where vents must face toward Highway 99, it is recommended that the duct work be increased in length and make as many "S" turns as feasible prior to exiting the dwelling. This separates the openings between the noise source and the living space with a long circuitous route. Each time the sound turns a corner, it is reduced slightly. Flexible duct work is preferred ducting for this noise mitigation. Where the vent exits the building, a spring-loaded flap with a gasket should be installed to reduce sound entering the duct work when the vent is not in use.
- Mechanical ventilation shall be provided to allow occupants to keep doors and windows closed for acoustic isolation.

- In lieu of these measures, an interior noise control report may be prepared by a qualified acoustic engineer demonstrating that the proposed building construction would achieve the interior noise reduction requirement of 26 dBA.

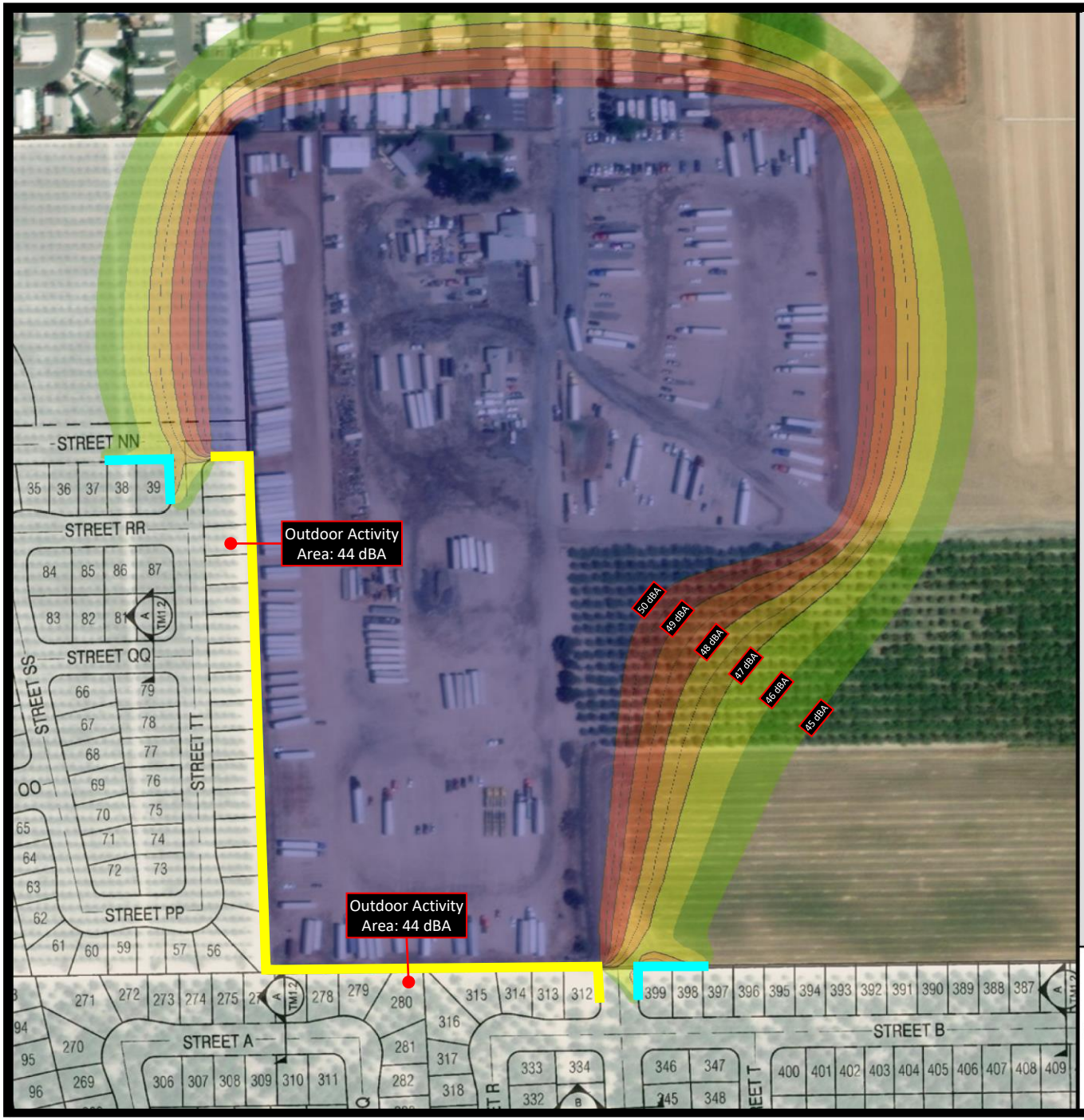
**EVALUATION OF STATIONARY NOISE ON PROJECT SITE**

The stationary noise environment in the project vicinity is primarily defined by the A.C. Trucking yard to the northeast of the project site. Saxelby Acoustics utilized the SoundPLAN noise modeling software to analyze noise generated by this use. Saxelby Acoustics utilized the noise level data collected at the noise measurement site LT-1 to analyze truck noise. Although the ambient noise environment at this location was primarily driven by traffic on Highway 99, Saxelby Acoustics determined the contribution of the truck yard. It was found that the truck yard could generate average noise levels of 53 dBA $L_{eq}$ at the proposed residential uses in a busy hour. The trucking facility may operate at this level of activity during both daytime (7:00 a.m. to 10:00 p.m.) and nighttime (10:00 p.m. to 7:00 a.m.) hours. These noise levels exceed the City of Manteca daytime standard of 50 dBA $L_{eq}$ and nighttime standard of 45 dBA $L_{eq}$. To control stationary noise on the project site, Saxelby Acoustics analyzed the effect of a sound wall separating the proposed residential uses and the existing commercial truck yard.

It should be noted that the maximum noise levels generated by a truck parking use would not exceed the average ($L_{eq}$) noise levels by more than 20 dBA. The City of Manteca daytime and nighttime maximum noise level standards are 20 dBA higher than the average ($L_{eq}$) standards. Therefore, where the project complies with the average noise level standards, it shall also comply with the maximum noise level standards.

Saxelby Acoustics used the SoundPLAN noise prediction model. Inputs to the model included sound power levels for the existing truck parking site, existing and proposed buildings, terrain type, potential sound wall locations, and locations of sensitive receptors. These predictions are made in accordance with International Organization for Standardization (ISO) standard 9613-2:1996 (Acoustics – Attenuation of sound during propagation outdoors). ISO 9613 is the most commonly used method for calculating exterior noise propagation.

Noise levels emanating from the truck yard can be reduced to acceptable levels on the project site through the use of 8-foot-tall and 10-foot-tall sound wall segments. **Figure 4** shows the locations of the recommended sound walls.




# Yosemite Square Residential

**City of Manteca, California**

**Figure 4**

**Truck Yard Operational Noise Contours (dBA $L_{eq}$)**

| Noise Level, dB(A) | | |
|---|---|---|
| 45 < | <= | 46 |
| 46 < | <= | 47 |
| 47 < | <= | 48 |
| 48 < | <= | 49 |
| 49 < | <= | 50 |
| 50 < | | |

**Legend**

- 8-ft Wall
- 10-ft Wall

**Scale 1:225**

0 45 90 180 270 360 feet

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**EVALUATION OF CONSTRUCTION NOISE AT NEARBY SENSITIVE RECEPTORS**

During the construction of the proposed project noise from construction activities would temporarily add to the noise environment in the project vicinity. As shown **Table 7**, activities involved in construction would generate maximum noise levels ranging from 76 to 90 dB at a distance of 50 feet.

**TABLE 7: CONSTRUCTION EQUIPMENT NOISE**

| Type of Equipment | Maximum Level, dBA at 50 feet |
|---|---|
| Auger Drill Rig | 84 |
| Backhoe | 78 |
| Compactor | 83 |
| Compressor (air) | 78 |
| Concrete Saw | 90 |
| Dozer | 82 |
| Dump Truck | 76 |
| Excavator | 81 |
| Generator | 81 |
| Jackhammer | 89 |
| Pneumatic Tools | 85 |

*Source: Roadway Construction Noise Model User's Guide. Federal Highway Administration. FHWA-HEP-05-054. January 2006.*

Noise would also be generated during the construction phase by increased truck traffic on area roadways. A significant Project-generated noise source would be truck traffic associated with transport of heavy materials and equipment to and from construction sites. This noise increase would be of short duration and would likely occur primarily during daytime hours. Construction activities would be temporary in nature and are exempt from noise regulation during the hours of 7:00 AM to 7:00 PM, as outlined in the City's Municipal Code:

***17.58.050 D. Exempt Activities***

8. Construction activities when conducted as part of an approved Building Permit, except as prohibited in Subsection **17.58.050**(E)(1) (Prohibited Activities) below.

***17.58.050 E. Prohibited Activities***

1. Construction Noise. Operating or causing the operation of tools or equipment on private property used in alteration, construction, demolition, drilling, or repair work daily between the hours of 7:00 p.m. and 7:00 a.m., so that the sound creates a noise disturbance across a residential property line, except for emergency work of public service utilities.

In addition to adhering to the City's acceptable hours of construction, All equipment shall be fitted with factory equipped mufflers, and in good working order.

## CONCLUSION

The proposed project is predicted to meet the City of Manteca noise level standards assuming the following requirements are incorporated into design for the new residential uses:

- A sound wall ranging from 14 to 16 feet in height must be constructed along the western project boundary as depicted on **Figure 3**. 8-Foot-tall sound walls must be constructed to shield first row residences along Austin Blvd. and the Highway 99 ramp as shown in **Figure 3**. Sound walls should consist of concrete masonry type construction and may include earthen berms to achieve the full wall height relative to pad elevations;
- Sound walls ranging from 8 to 10 feet in height must be constructed at the residences near the A.C. Trucking Yard at the north end of the project site. Wall locations are shown on **Figure 4**. Sound walls should consist of concrete masonry type construction and may include earthen berms to achieve the full wall height relative to pad elevations;
- For the first row of residential lots adjacent to the SR-99 right-of-way, the following interior noise control measures shall be implemented:
    - Building facades shall include use of stucco with exterior sheathing and a resilient channel for hanging interior gypsum board;
    - STC 34 minimum rated glazing shall be used;
    - Interior gypsum wallboards and gypsum ceiling shall be 5/8";
    - Saxelby Acoustics recommends that mechanical ventilation penetrations for exhaust fans not face toward Highway 99 or Austin Road. Where feasible, these vents should be routed towards the opposite side of the building to minimize sound intrusion to sensitive areas of the buildings.
    - Where vents must face toward Highway 99 or Austin Road, it is recommended that the duct work be increased in length and make as many "S" turns as feasible prior to exiting the dwelling. This separates the openings between the noise source and the living space with a long circuitous route. Each time the sound turns a corner, it is reduced slightly. Flexible duct work is preferred ducting for this noise mitigation. Where the vent exits the building, a spring-loaded flap with a gasket should be installed to reduce sound entering the duct work when the vent is not in use.
    - In lieu of these measures, an interior noise control report may be prepared by a qualified acoustic engineer demonstrating that the proposed building construction would achieve the interior noise reduction requirement of 26 dBA.
- Mechanical ventilation shall be provided to allow occupants to keep doors and windows closed for acoustic isolation.
- Construction activities shall adhere to the requirements of the City of Manteca Municipal Code with respect to hours of operation. This requirement shall be noted in the improvements plans prior to approval by the City's Public Works Department.
- All construction equipment shall be fitted with factory equipped mufflers, and in good working order. This requirement shall be noted in the improvements plans prior to approval by the City's Public Works Department.

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## Appendix A: Acoustical Terminology

| | |
|---|---|
| **Acoustics** | The science of sound. |
| **Ambient Noise** | The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study. |
| **ASTC** | Apparent Sound Transmission Class. Similar to STC but includes sound from flanking paths and correct for room reverberation. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic. |
| **Attenuation** | The reduction of an acoustic signal. |
| **A-Weighting** | A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response. |
| **Decibel or dB** | Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell. |
| **CNEL** | Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by +5 dBA and nighttime hours weighted by +10 dBA. |
| **DNL** | See definition of Ldn. |
| **IIC** | Impact Insulation Class. An integer-number rating of how well a building floor attenuates impact sounds, such as footsteps. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic. |
| **Frequency** | The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz). |
| **Ldn** | Day/Night Average Sound Level. Similar to CNEL but with no evening weighting. |
| **Leq** | Equivalent or energy-averaged sound level. |
| **Lmax** | The highest root-mean-square (RMS) sound level measured over a given period of time. |
| **L(n)** | The sound level exceeded a described percentile over a measurement period. For instance, an hourly L50 is the sound level exceeded 50% of the time during the one-hour period. |
| **Loudness** | A subjective term for the sensation of the magnitude of sound. |
| **NIC** | Noise Isolation Class. A rating of the noise reduction between two spaces. Similar to STC but includes sound from flanking paths and no correction for room reverberation. |
| **NNIC** | Normalized Noise Isolation Class. Similar to NIC but includes a correction for room reverberation. |
| **Noise** | Unwanted sound. |
| **NRC** | Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption. |
| **RT60** | The time it takes reverberant sound to decay by 60 dB once the source has been removed. |
| **Sabin** | The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin. |
| **SEL** | Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train pass by, that compresses the total sound energy into a one-second event. |
| **SPC** | Speech Privacy Class. SPC is a method of rating speech privacy in buildings. It is designed to measure the degree of speech privacy provided by a closed room, indicating the degree to which conversations occurring within are kept private from listeners outside the room. |
| **STC** | Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations. The STC rating is typically used to rate the sound transmission of a specific building element when tested in laboratory conditions where flanking paths around the assembly don't exist. A larger number means more attenuation. The scale, like the decibel scale for sound, is logarithmic. |
| **Threshold of Hearing** | The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing. |
| **Threshold of Pain** | Approximately 120 dB above the threshold of hearing. |
| **Impulsive** | Sound of short duration, usually less than one second, with an abrupt onset and rapid decay. |
| **Simple Tone** | Any sound which can be judged as audible as a single pitch or set of single pitches. |

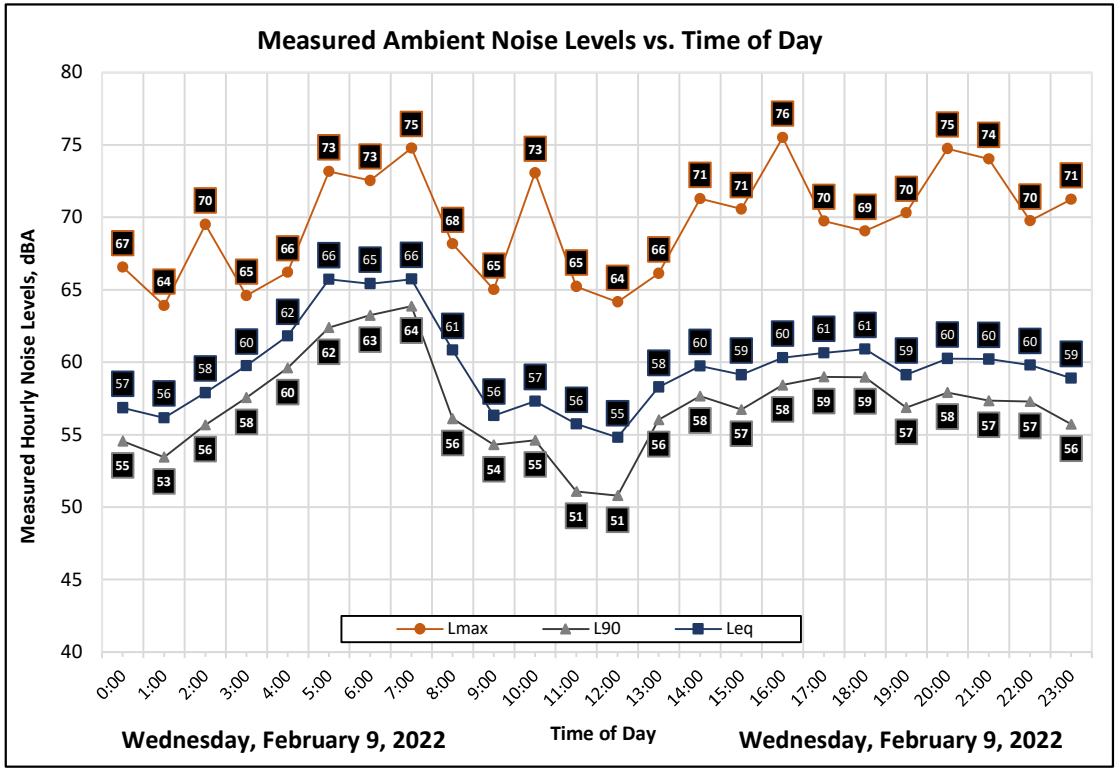
# Appendix B: Continuous Ambient Noise Measurement Results

## Appendix B1: Continuous Noise Monitoring Results

**Site:** LT-1
**Project:** Yosemite Square Residential
**Location:** Northern Project Boundary
**Coordinates:** 37.7902782°, -121.1858769°
**Meter:** LDL 820-2
**Calibrator:** CAL200

| Date | Time | Measured Level, dBA | | | |
|---|---|---|---|---|---|
| | | $L_{eq}$ | $L_{max}$ | $L_{50}$ | $L_{90}$ |
| Wednesday, February 9, 2022 | 0:00 | 57 | 67 | 56 | 55 |
| Wednesday, February 9, 2022 | 1:00 | 56 | 64 | 56 | 53 |
| Wednesday, February 9, 2022 | 2:00 | 58 | 70 | 58 | 56 |
| Wednesday, February 9, 2022 | 3:00 | 60 | 65 | 59 | 58 |
| Wednesday, February 9, 2022 | 4:00 | 62 | 66 | 62 | 60 |
| Wednesday, February 9, 2022 | 5:00 | 66 | 73 | 65 | 62 |
| Wednesday, February 9, 2022 | 6:00 | 65 | 73 | 65 | 63 |
| Wednesday, February 9, 2022 | 7:00 | 66 | 75 | 65 | 64 |
| Wednesday, February 9, 2022 | 8:00 | 61 | 68 | 58 | 56 |
| Wednesday, February 9, 2022 | 9:00 | 56 | 65 | 56 | 54 |
| Wednesday, February 9, 2022 | 10:00 | 57 | 73 | 57 | 55 |
| Wednesday, February 9, 2022 | 11:00 | 56 | 65 | 55 | 51 |
| Wednesday, February 9, 2022 | 12:00 | 55 | 64 | 54 | 51 |
| Wednesday, February 9, 2022 | 13:00 | 58 | 66 | 58 | 56 |
| Wednesday, February 9, 2022 | 14:00 | 60 | 71 | 59 | 58 |
| Wednesday, February 9, 2022 | 15:00 | 59 | 71 | 59 | 57 |
| Wednesday, February 9, 2022 | 16:00 | 60 | 76 | 60 | 58 |
| Wednesday, February 9, 2022 | 17:00 | 61 | 70 | 60 | 59 |
| Wednesday, February 9, 2022 | 18:00 | 61 | 69 | 61 | 59 |
| Wednesday, February 9, 2022 | 19:00 | 59 | 70 | 59 | 57 |
| Wednesday, February 9, 2022 | 20:00 | 60 | 75 | 60 | 58 |
| Wednesday, February 9, 2022 | 21:00 | 60 | 74 | 60 | 57 |
| Wednesday, February 9, 2022 | 22:00 | 60 | 70 | 59 | 57 |
| Wednesday, February 9, 2022 | 23:00 | 59 | 71 | 58 | 56 |

| Statistics | Leq | Lmax | L50 | L90 |
|---|---|---|---|---|
| Day Average | 60 | 70 | 59 | 57 |
| Night Average | 62 | 69 | 60 | 58 |
| Day Low | 55 | 64 | 54 | 51 |
| Day High | 66 | 76 | 65 | 64 |
| Night Low | 56 | 64 | 56 | 53 |
| Night High | 66 | 73 | 65 | 63 |
| Ldn | 68 | Day % | | 56 |
| CNEL | 68 | Night % | | 44 |

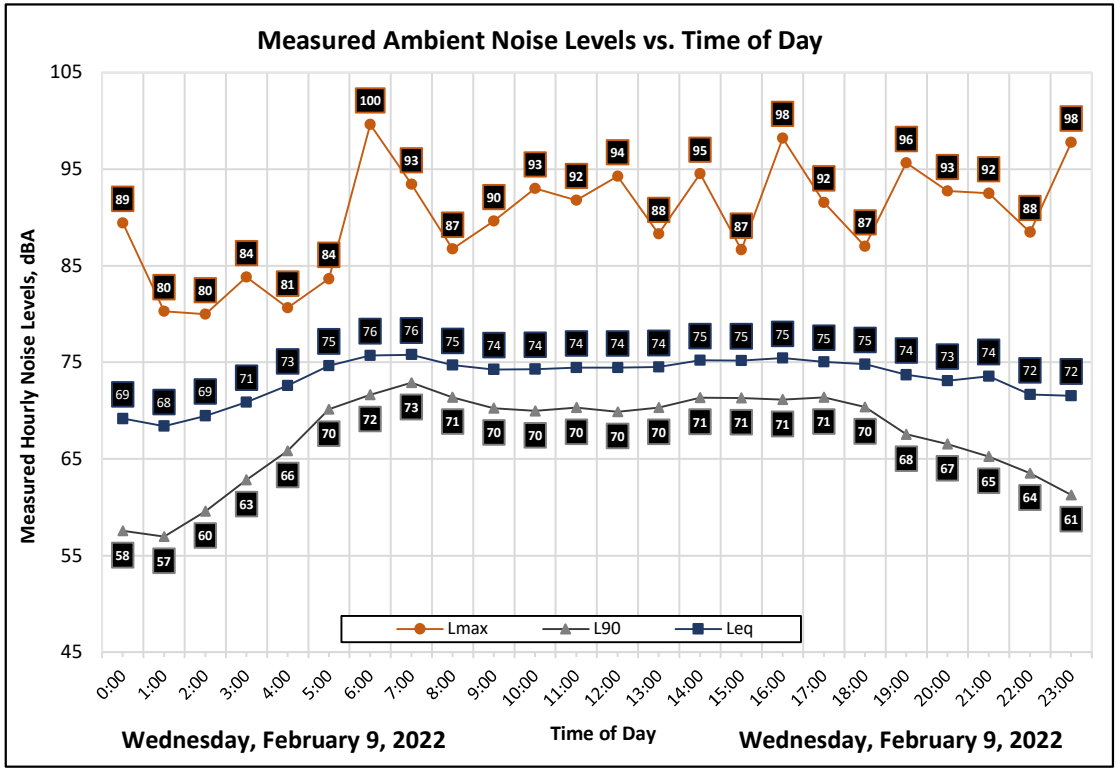


## Appendix B2: Continuous Noise Monitoring Results

**Site:** LT-2
**Project:** Yosemite Square Residential
**Location:** Southwestern Project Boundary
**Coordinates:** 37.7858414°, -121.1878544°
**Meter:** LDL 820-3
**Calibrator:** CAL200

| Date | Time | Measured Level, dBA | | | |
|---|---|---|---|---|---|
| | | $L_{eq}$ | $L_{max}$ | $L_{50}$ | $L_{90}$ |
| Wednesday, February 9, 2022 | 0:00 | 69 | 89 | 65 | 58 |
| Wednesday, February 9, 2022 | 1:00 | 68 | 80 | 65 | 57 |
| Wednesday, February 9, 2022 | 2:00 | 69 | 80 | 66 | 60 |
| Wednesday, February 9, 2022 | 3:00 | 71 | 84 | 69 | 63 |
| Wednesday, February 9, 2022 | 4:00 | 73 | 81 | 72 | 66 |
| Wednesday, February 9, 2022 | 5:00 | 75 | 84 | 74 | 70 |
| Wednesday, February 9, 2022 | 6:00 | 76 | 100 | 75 | 72 |
| Wednesday, February 9, 2022 | 7:00 | 76 | 93 | 75 | 73 |
| Wednesday, February 9, 2022 | 8:00 | 75 | 87 | 74 | 71 |
| Wednesday, February 9, 2022 | 9:00 | 74 | 90 | 74 | 70 |
| Wednesday, February 9, 2022 | 10:00 | 74 | 93 | 74 | 70 |
| Wednesday, February 9, 2022 | 11:00 | 74 | 92 | 74 | 70 |
| Wednesday, February 9, 2022 | 12:00 | 74 | 94 | 74 | 70 |
| Wednesday, February 9, 2022 | 13:00 | 74 | 88 | 74 | 70 |
| Wednesday, February 9, 2022 | 14:00 | 75 | 95 | 75 | 71 |
| Wednesday, February 9, 2022 | 15:00 | 75 | 87 | 75 | 71 |
| Wednesday, February 9, 2022 | 16:00 | 75 | 98 | 74 | 71 |
| Wednesday, February 9, 2022 | 17:00 | 75 | 92 | 75 | 71 |
| Wednesday, February 9, 2022 | 18:00 | 75 | 87 | 74 | 70 |
| Wednesday, February 9, 2022 | 19:00 | 74 | 96 | 73 | 68 |
| Wednesday, February 9, 2022 | 20:00 | 73 | 93 | 72 | 67 |
| Wednesday, February 9, 2022 | 21:00 | 74 | 92 | 71 | 65 |
| Wednesday, February 9, 2022 | 22:00 | 72 | 88 | 70 | 64 |
| Wednesday, February 9, 2022 | 23:00 | 72 | 98 | 68 | 61 |

| Statistics | Leq | Lmax | L50 | L90 |
|---|---|---|---|---|
| Day Average | 75 | 92 | 74 | 70 |
| Night Average | 72 | 87 | 69 | 63 |
| Day Low | 73 | 87 | 71 | 65 |
| Day High | 76 | 98 | 75 | 73 |
| Night Low | 68 | 80 | 65 | 57 |
| Night High | 76 | 100 | 75 | 72 |
| Ldn | 79 | Day % | | 76 |
| CNEL | 79 | Night % | | 24 |

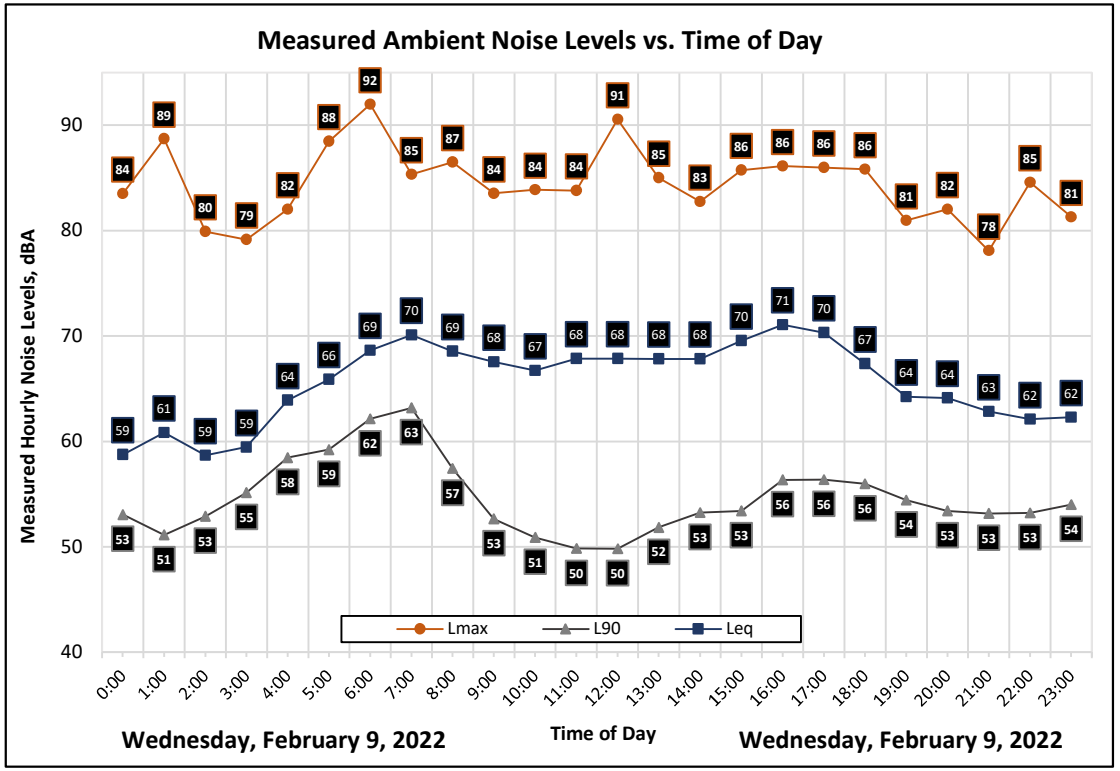


## Appendix B3: Continuous Noise Monitoring Results

**Site:** LT-3
**Project:** Yosemite Square Residential
**Location:** Southeastern Project Boundary
**Coordinates:** 37.7849328°, -121.1796461°
**Meter:** LDL 820-5
**Calibrator:** CAL200

| Date | Time | Measured Level, dBA | | | |
|---|---|---|---|---|---|
| | | $L_{eq}$ | $L_{max}$ | $L_{50}$ | $L_{90}$ |
| Wednesday, February 9, 2022 | 0:00 | 59 | 84 | 55 | 53 |
| Wednesday, February 9, 2022 | 1:00 | 61 | 89 | 54 | 51 |
| Wednesday, February 9, 2022 | 2:00 | 59 | 80 | 55 | 53 |
| Wednesday, February 9, 2022 | 3:00 | 59 | 79 | 57 | 55 |
| Wednesday, February 9, 2022 | 4:00 | 64 | 82 | 61 | 58 |
| Wednesday, February 9, 2022 | 5:00 | 66 | 88 | 61 | 59 |
| Wednesday, February 9, 2022 | 6:00 | 69 | 92 | 65 | 62 |
| Wednesday, February 9, 2022 | 7:00 | 70 | 85 | 66 | 63 |
| Wednesday, February 9, 2022 | 8:00 | 69 | 87 | 62 | 57 |
| Wednesday, February 9, 2022 | 9:00 | 68 | 84 | 58 | 53 |
| Wednesday, February 9, 2022 | 10:00 | 67 | 84 | 55 | 51 |
| Wednesday, February 9, 2022 | 11:00 | 68 | 84 | 56 | 50 |
| Wednesday, February 9, 2022 | 12:00 | 68 | 91 | 57 | 50 |
| Wednesday, February 9, 2022 | 13:00 | 68 | 85 | 58 | 52 |
| Wednesday, February 9, 2022 | 14:00 | 68 | 83 | 58 | 53 |
| Wednesday, February 9, 2022 | 15:00 | 70 | 86 | 62 | 53 |
| Wednesday, February 9, 2022 | 16:00 | 71 | 86 | 66 | 56 |
| Wednesday, February 9, 2022 | 17:00 | 70 | 86 | 65 | 56 |
| Wednesday, February 9, 2022 | 18:00 | 67 | 86 | 62 | 56 |
| Wednesday, February 9, 2022 | 19:00 | 64 | 81 | 58 | 54 |
| Wednesday, February 9, 2022 | 20:00 | 64 | 82 | 56 | 53 |
| Wednesday, February 9, 2022 | 21:00 | 63 | 78 | 56 | 53 |
| Wednesday, February 9, 2022 | 22:00 | 62 | 85 | 56 | 53 |
| Wednesday, February 9, 2022 | 23:00 | 62 | 81 | 56 | 54 |

| Statistics | Leq | Lmax | L50 | L90 |
|---|---|---|---|---|
| Day Average | 68 | 84 | 60 | 54 |
| Night Average | 64 | 84 | 58 | 55 |
| Day Low | 63 | 78 | 55 | 50 |
| Day High | 71 | 91 | 66 | 63 |
| Night Low | 59 | 79 | 54 | 51 |
| Night High | 69 | 92 | 65 | 62 |
| Ldn | 71 | Day % | | 84 |
| CNEL | 71 | Night % | | 16 |



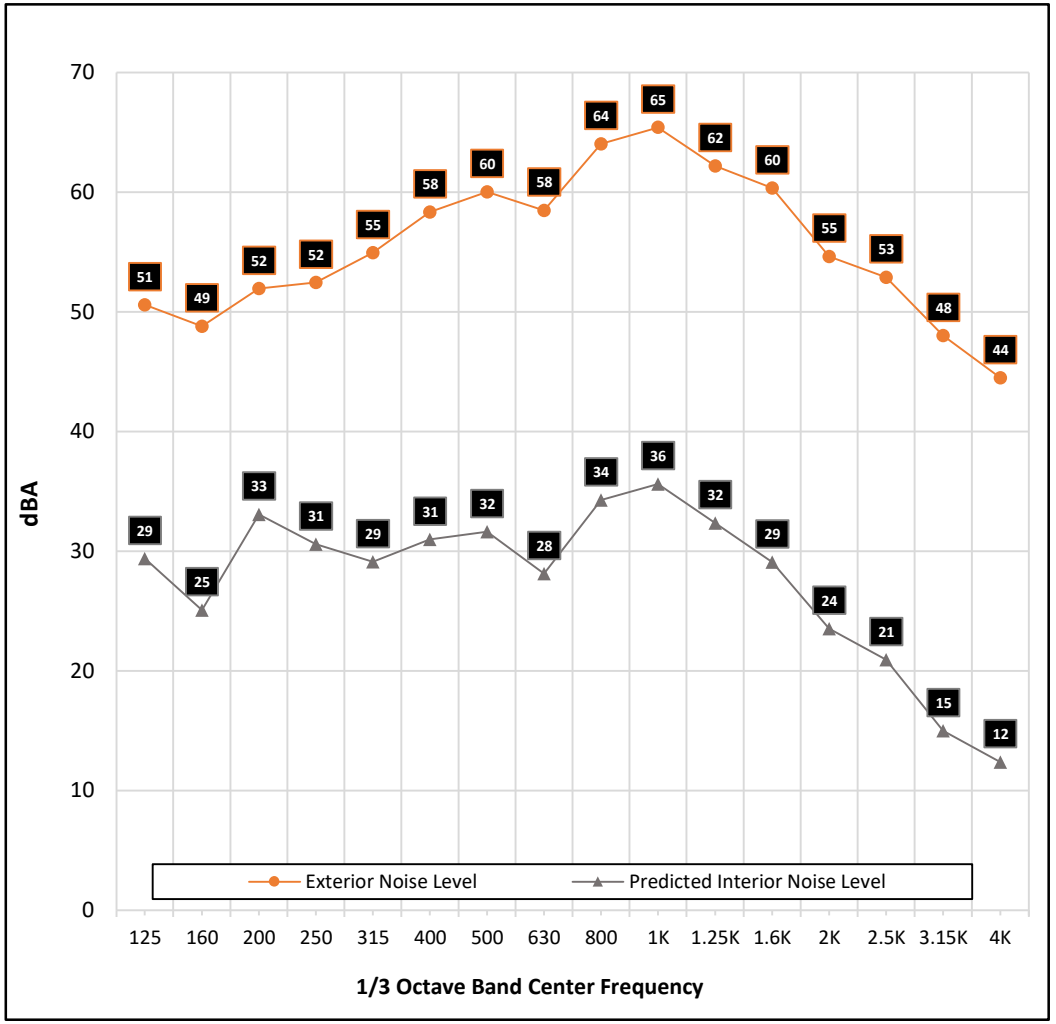
# Appendix C: Exterior to Interior Noise Level Reduction Calculations

## Appendix C1: Interior Noise Calculation Sheet

**Project:** Yosemite Square Residential
**Room Description:** Bedroom

| Inputs | | |
|---|---|---|
| Parallel Exterior level, dBA: | 71.0 | Ldn |
| Correction Factor, dBA: | 5 | |
| Noise Source: | Freeway Traffic - SR99 Turlock | |
| Room Perimeter, ft: | 42 | |
| Room Area, ft: | 120 | |
| Room Height, ft: | 9 | |
| Transmitting Panel Length, ft: | 22 | |
| Window Area, ft: | 50 | |
| Ceiling Finish: | Gyp Board | |
| Ceiling, sf: | 120 | |
| Wall Finish 1: | Gyp Board | |
| Wall Finish 1, sf: | 328 | |
| Wall Finish 2: | Glass | |
| Wall Finish 2, sf: | 50 | |
| Floor: | Wood | |
| Floor, sf: | 120 | |
| Misc. Finish: | Soft Furnishings | |
| Misc. Finish, sf: | 25 | |
| Transmitting Element 1: | Wall - 0.5" OSB, One Coat Stucco, RC | |
| Element 1, sf: | 148 | |
| Transmitting Element 2: | Window - Quiet Home STC 34 | |
| Element 2, sf: | 50 | |
| Transmitting Element 3: | | |
| Element 3, sf: | | |
| Transmitting Element 4: | | |
| Element 4, sf: | | |

**Predicted Interior Noise Level, dBA: 42**
**Noise Reduction, dBA: -29**

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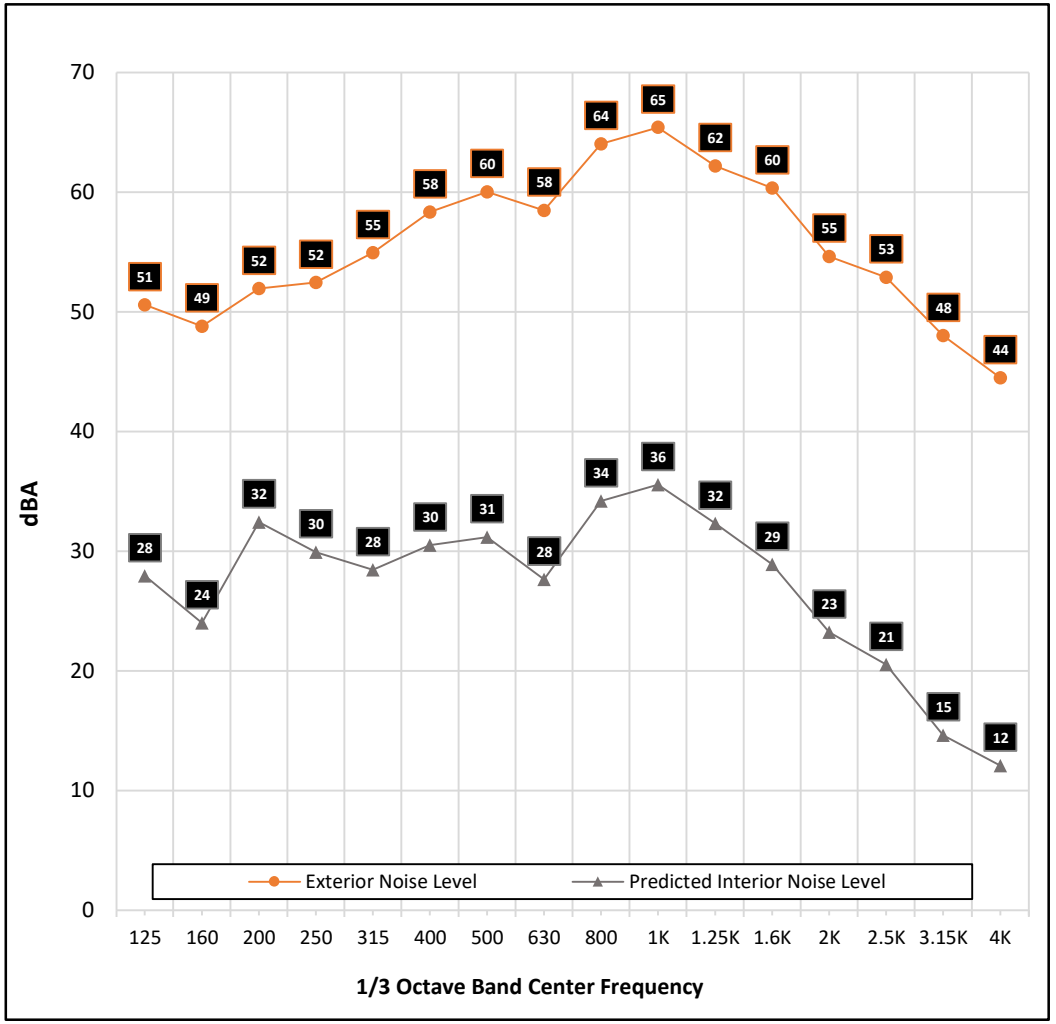
## Appendix C2: Interior Noise Calculation Sheet

**Project:** Yosemite Square Residential
**Room Description:** Living Room

| Inputs | | |
|---|---|---|
| Parallel Exterior level, dBA: | 71.0 | Ldn |
| Correction Factor, dBA: | 5 | |
| Noise Source: | Freeway Traffic - SR99 Turlock | |
| Room Perimeter, ft: | 80 | |
| Room Area, ft: | 400 | |
| Room Height, ft: | 9 | |
| Transmitting Panel Length, ft: | 20 | |
| Window Area, ft: | 100 | |
| Ceiling Finish: | Gyp Board | |
| Ceiling, sf: | 400 | |
| Wall Finish 1: | Gyp Board | |
| Wall Finish 1, sf: | 620 | |
| Wall Finish 2: | Glass | |
| Wall Finish 2, sf: | 100 | |
| Floor: | Wood | |
| Floor, sf: | 400 | |
| Misc. Finish: | Soft Furnishings | |
| Misc. Finish, sf: | 25 | |
| Transmitting Element 1: | Wall - 0.5" OSB, One Coat Stucco, RC | |
| Element 1, sf: | 80 | |
| Transmitting Element 2: | Window - Quiet Home STC 34 | |
| Element 2, sf: | 100 | |
| Transmitting Element 3: | | |
| Element 3, sf: | | |
| Transmitting Element 4: | | |
| Element 4, sf: | | |

**Predicted Interior Noise Level, dBA: 42**
**Noise Reduction, dBA: -29**

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May 2, 2022

Rod Stinson
Raney Planning & Management
1501 Sports Drive
Sacramento, California 95834
rods@raneymanagement.com

**Subject: Yosemite Square Residential Alternative Site Plan**

Dear Mr. Stinson:

Saxelby Acoustics has reviewed the updated project description for the above-referenced project. Saxelby Acoustics originally recommended sound wall heights of 14 to 16 feet along the Highway 99 frontage and wall heights of 8 feet along Austin Road. These recommendations were made based on factors such as the proximity of sensitive receptors to Highway 99, site plan layout, and topography.

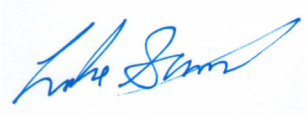
The updated project site includes replacement of high-density residential uses to the north with single family residences and reorientation of several lots throughout the project site. The typical distance of sensitive receptors at the western project boundary to the centerline of Highway 99 ranges from approximately 115 to 150 feet. These distances are similar to the original site plan; therefore, sound wall heights of 14 to 16 feet shall be sufficient to reduce noise levels to below the conditionally acceptable limit of 65 dBA $L_{dn}$. Similarly, no significant changes were made to setbacks of residences at the eastern or northeastern project boundaries. The sound walls along Austin Road shall remain at 8 feet in height and sound walls surrounding the A.C. Trucking Yard shall remain at 8 to 10 feet. Further analysis shall be required to determine the exact height and location of sound walls for the updated project description.

We recommend that at the time of the improvement plans, a final acoustic analysis be prepared to ensure that appropriate noise control measures have been incorporated into the project to achieve the exterior and interior noise standards of the City of Manteca.

I hope this information is helpful. Please call or email me if you have any questions.

Sincerely,

Saxelby Acoustics LLC



Luke Saxelby, INCE Bd. Cert.
Principal Consultant
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Roseville, CA 95678

# APPENDIX G

## TRANSPORTATION EVALUATION MEMORANDUM

FEHR PEERS

# TECHNICAL MEMORANDUM

Date: July 7, 2022

To: Rod Stinson – Raney Planning & Management, Inc.

From: Shangyou Zeng, Rodney E. Brown, David B. Robinson – Fehr & Peers

Subject: *Transportation Evaluation of Proposed Rezone of Yosemite Square Master Plan (Revised)*

*RS21-4102*

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Fehr & Peers completed its evaluation of the proposed rezone of the Yosemite Square Master Plan. This memorandum addresses the potential transportation impacts associated with the proposed rezone of the Yosemite Square Master Plan located in the City of Manteca, focusing on how conditions would change related to vehicle miles traveled (VMT) under cumulative (2040) conditions, and summarizes the site access and circulation review.

## Proposed Site Description

The project site is located in the eastern portion of the City of Manteca, California. It is bound by State Route 99 (SR 99) on the west and Austin Road on the east. Currently, the project site is undeveloped and entirely comprised of agricultural land. **Figure 1** displays the location of the proposed project. Access is proposed via two intersections on Austin Road.

In 2012, the Final Initial Study/Mitigated Negative Declaration (IS/MND) was completed for the Yosemite Square Master Plan with approved land uses including residential neighborhoods, business park, and parks. The detail land uses are documented in the trip generation comparison table in the next section based on the IS/MND Appendix F Traffic Impact Analysis (page 18).

According to the project site plan (Yosemite Square Draft Vesting Tentative Subdivision Map, NorthStar Engineering Group, Inc., April 2022), the proposed rezone would yield a total of 814 single family residential dwelling units and one community park. **Figure 2** displays the project site plan and proposed access.

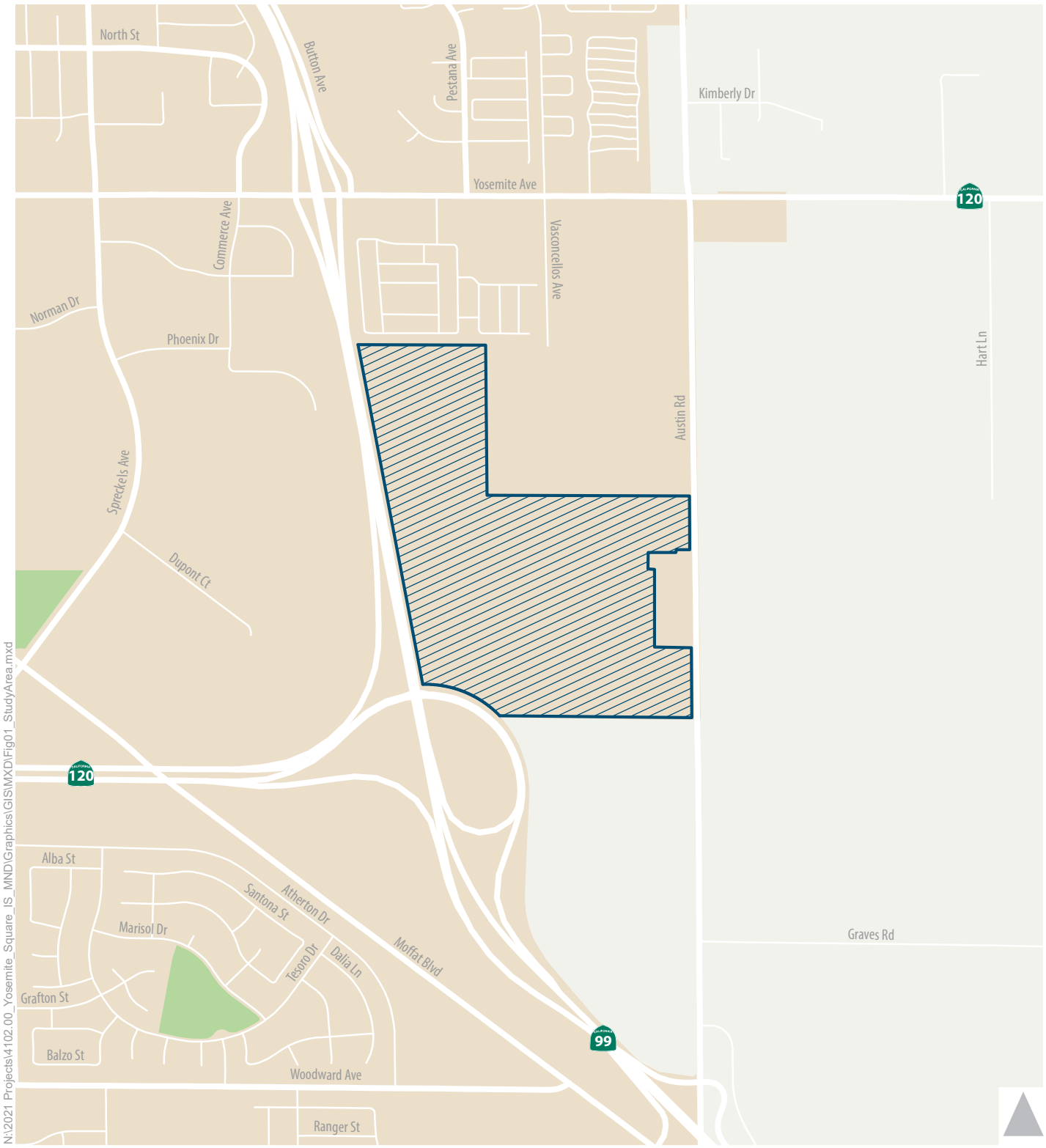


Figure 1

## Study Area

N:\2021 Projects\4102.00_Yosemite_Square_IS_MND\Graphics\AI\Fig02_SitePlan.ai

Figure 2

## Site Plan

## Trip Generation Comparison

**Table 1** compares the trip generation of Yosemite Square based on its existing to the proposed land use. We used trip generation rates from the IS/MND Appendix F Traffic Impact Analysis to maintain the consistency of the comparison.

**Table 1: Trip Generation Comparison – Existing vs. Proposed Land Use**

| Land Use | Unit | Size | Trip Rate[1] | | | Trips | | |
|---|---|---|---|---|---|---|---|---|
| | | | Daily | AM | PM | Daily | AM | PM |
| *Existing Land Use* | | | | | | | | |
| Single Family Residential (LU 210) | DUs | 306 | 9.51 | 0.73 | 0.94 | 2,910 | 223 | 288 |
| Medium Density Residential (LU 220) | DUs | 103 | 7.26 | 0.53 | 0.72 | 748 | 55 | 74 |
| High Density Residential (LU 220) | DUs | 346 | 6.42 | 0.5 | 0.6 | 2,221 | 173 | 208 |
| Medical Office Building (LU 720) | KSF | 95.135 | 38.63 | 2.3 | 2.84 | 3,675 | 219 | 270 |
| General Office Building (LU 710) | KSF | 261.62 | 10.69 | 1.55 | 1.42 | 2,797 | 406 | 372 |
| Light Industrial (LU 110) | KSF | 71.351 | 6.04 | 0.92 | 0.97 | 431 | 66 | 69 |
| Service Commercial | KSF | 47.568 | 40 | 1.2 | 3.6 | 1,903 | 57 | 171 |
| | | | | | Internal Capture | -74 | -14 | -14 |
| | | | | | Total | 14,611 | 1,184[2] | 1,438 |
| *Proposed Land Use* | | | | | | | | |
| Single Family Residential (LU 210) | DU's | 814 | 9.51 | 0.73 | 0.94 | 7,741 | 594 | 765 |
| | | | | | Internal Capture[3] | 0 | 0 | 0 |
| | | | | | Total | 7,741 | 594 | 765 |
| | | | | | Difference (Percent Difference) | -6,870 (-47%) | -590 (-50%) | -673 (-47%) |

Notes:
1. Daily, AM and PM peak hour trip rates are from Traffic Impact Analysis for Yosemite Square Project, April 12, 2011, documented in Yosemite Square IS/MND.
2. Difference from sum of individual land uses due to rounding.
3. No internal capture assumed since the proposed rezone includes only residential land uses.

KSF = thousand square feet. DU's = dwelling units
Source: Fehr & Peers, 2022

As shown, proposed rezone would result in about 50% lower trip generation than the existing zoning. Therefore, relative to the existing zoning, traffic operations documented in the IS/MND would be similar to or improved (i.e., lower delay and better level of service) with the proposed rezone. The following analysis compares VMT of the proposed rezone to the existing zoning.

## Vehicle Miles Traveled (VMT)

This section describes the significance criteria used to evaluate project impacts and the methodology used to complete the vehicle miles traveled analysis for Yosemite Square.

### Senate Bill 743

Senate Bill (SB) 743 was signed into law in 2013 and is leading to substantial changes in the way transportation impact analyses are being prepared. Notably, it precludes the use of level of service (LOS) to identify significant transportation impacts in California Environmental Quality Act (CEQA) analysis for land use projects, recommending instead that VMT be used as the preferred metric. On December 28, 2018, the CEQA Guidelines were amended to add Section 15064.3, "Determining the Significance of Transportation Impacts," which states that generally, VMT is the most appropriate measure of transportation impacts. According to 15064.3(a), "Except as provided in subdivision (b)(2) (regarding roadway capacity), a project's effect on automobile delay shall not constitute a significant environmental impact." Beginning July 1, 2020, the provisions of 15064.3 applied statewide.

To aid in SB 743 implementation, in December 2018 the Governor's Office of Planning and Research (OPR) released a "Technical Advisory on Evaluating Transportation Impacts in CEQA" (Technical Advisory). The Technical Advisory provides advice and recommendations to CEQA lead agencies on how to implement the SB 743 changes. This includes technical recommendations regarding the assessment of VMT, thresholds of significance, VMT mitigation measures, and screening thresholds for certain land use projects. Lead agencies may consider and use these recommendations at their discretion and with the provision of substantial evidence to support alternative approaches.

The Technical Advisory identifies "screening thresholds" to identify when a project should be expected to cause a less-than-significant impact without conducting a detailed study. The following screening thresholds could be applicable to the proposed project.

- Small projects – projects consistent with a Sustainable Communities Strategy and local general plan that generate or attract fewer than 110 trips per day.
- Projects near major transit stops – certain projects (residential, retail, office, or a mix of these uses) proposed within ½ mile of an existing major transit stop or an existing stop along a high-quality transit corridor.
- Affordable residential development – a project consisting of a high percentage of affordable housing may be a basis to find a less-than-significant impact on VMT.
- Projects in low VMT areas – residential and office projects that incorporate similar features (i.e., density, mix of uses, transit accessibility) as existing development in areas with low VMT will tend to exhibit similarly low VMT.

The Technical Advisory also identifies recommended numeric VMT thresholds for residential and office projects. The threshold for residential and office projects is recommended to be 15% below existing regional residential VMT per capita for residential development, and 15% below existing regional office VMT per employee for office development. The threshold may be measured at a regional or City level.

### Thresholds of Significance

The Interim City of Manteca SB 743 Implementation Plan contains thresholds of significance pertaining to VMT that the City of Manteca will apply when analyzing the transportation impacts of land use projects using CEQA. However, because the project is a rezone that involves multiple land use changes and a mix of residential and non-residential land uses, the project's effect on VMT is evaluated on a model wide basis, using the City of Manteca Travel Demand Forecasting Model (TDF Model) to estimate model wide VMT under cumulative (Year 2040) conditions with and without the proposed rezone. The project would cause a result in a significant impact if the implementation of the proposed project would result in an increase in model wide VMT.

### City of Manteca Travel Demand Forecasting Model

Fehr & Peers recently developed an Interim General Plan Year 2040 Travel Forecasting Model (TFM) for the City of Manteca, encompassing adjacent areas. The City of Manteca, Lathrop, and Ripon Travel Forecasting Model is a modified version of the Three-County RTP/SCS Air Quality Conformity Model with improved major model components. The development of the TFM is described below.

#### Baseline (Existing) Travel Demand Forecasting Model

The Base Year TFM incorporates land use data for dwelling units (i.e., single family and multi-family) and employment (i.e., food, retail, office, industrial, medical, government, and school), as well as the roadway network (i.e., lanes, speed, capacity class), based on existing (i.e., 2019) data. The TFM Trip generation rates were derived from the Institute of Transportation Engineer's Trip Generation Manual and include appropriate inbound/outbound trip generation rates for residential and employment land uses for AM and PM peak hour conditions. The TFM was calibrated to reflect more accurate trip distribution for Internal-to-Internal (II) trips, Internal-to-External (IX) trips, External-to-Internal (XI) trips and External-to-External (XX) through trips based on a combination of the Caltrans Household Travel Survey (CHTS), the American Community Survey (ACS), and California Statewide Model to replicate most vehicle trips to and from the west (San Francisco Bay Area) and a smaller percentage to and from the north (e.g., including Stockton and Sacramento) and lastly to and from the south.

#### Interim General Plan Year 2040 Travel Demand Forecasting Model

The Cumulative Year 2040 TFM was developed based on expected future land use and transportation network for the City of Manteca and adjacent areas in 2040. The Cumulative Year 2040 model scenario

was developed in coordination with both Manteca and Lathrop to ensure that the TFM represents market-based demand for future population and employment growth. The City of Manteca 2040 land use inputs were developed based on the City of Manteca's approved and anticipated projects that will be constructed and occupied by year 2040. The City of Lathrop 2040 land use inputs were developed based on the City's growth in households and employment for the past 5 years (i.e., 2016 to 2020). Growth was allocated to planned and approved development areas, including the area west of I-5 and along the SR 120 corridor.

The TFM also includes projects identified in the City of Manteca Public Facilities Implementation Plan (PFIP) and the San Joaquin Council of Government (SJCOG) Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) Project List for:

- Mainline Highway Improvements (Table 6-1 from SJCOG RTP);
- Interchange Improvements (Table 6-1 from SJCOG RTP); and
- Regional Roadway Improvements (Table 6-3 from SJCOG RTP).

The transportation network was also modified to increase the detail near the project site.

**Proposed Project VMT Analysis**

We evaluated the proposed project against the screening criteria in the Interim City of Manteca SB 743 Implementation Plan. The following criteria is applicable to residential developments.

- Small projects – projects consistent with a Sustainable Communities Strategy and local general plan that generate or attract fewer than 110 trips per day.
- Projects near major transit stops – certain projects (residential, retail, office, or a mix of these uses) proposed within ½ mile of an existing major transit stop or an existing stop along a high-quality transit corridor.
- Affordable residential development – a project consisting of a high percentage of affordable housing may be a basis to find a less-than-significant impact on VMT.
- Projects in low VMT areas – residential and office projects that incorporate similar features (i.e., density, mix of uses, transit accessibility) as existing development in areas with low VMT will tend to exhibit similarly low VMT.

The proposed development does not constitute a small project, is not located within ½ mile of an existing major transit stop and does not include a high percentage of affordable housing units; therefore, the development is not eligible to be screened out based on these criteria. The City of Manteca has not developed low VMT areas, so this criterion is not applicable at this time.

Therefore, a detailed VMT analysis was conducted using methodology discussed in "Thresholds of Significance" section of this report. We calculated model wide VMT using City of Manteca 2040 TDF

Model (i.e., travel generated by all land uses within the model area and include the through trips on the model network). As shown in **Table 2,** that the rezone would decrease the total VMT, consistent with the decrease in trip generation shown in **Table 1**. Therefore, the proposed rezone would result in a less than significant VMT impact.

| Table 2: Model-wide Total Vehicle Miles Traveled Analysis | |
|---|---|
| **Model Scenario** | **Total VMT** |
| 2040 with Existing Land Use | 20,110,925 |
| 2040 with Proposed Land Use | 20,083,852 |
| Difference | 27,073 |

## Site Access and Circulation Review

An updated project site plan from April 2022 was reviewed to identify potential operational concerns. Similar analysis was performed previously for a previous version of the site plan from October 2021. Key recommendations associated with project buildout include:

### Project Access on Austin Road

- Given the amount of existing through traffic on Austin Road, travel speed, and the projected volume entering and exiting the project site, additional analysis is recommended. The City of Manteca has indicated that the project will require the completion of additional traffic study and/or warrant analysis in the future to determine the intersection control. Likely control options include side-street stop control, all-way stop control, and a single-lane roundabout.

### Internal Collector Streets

- The two internal collector streets (Streets S and H east of the roundabout) are proposed to each consist of one 16-foot travel lane in each direction separated by a landscaped median. One side of the street would have a five-foot sidewalk, while the other would have an eight-foot sidewalk situated in the middle of an overall 32-foot-wide landscaped area (between the curb and masonry wall).
- These streets have 16-foot travel lanes and no front-on housing or driveways. Vehicles are less likely to park along these streets than along streets with housing along the frontage. These conditions make speeding drivers more likely.
- The following is recommended for Street S and Street H east of the roundabout:
    a. Narrow the travel lane widths to 11 feet and add one 5-foot bike lane on both side of the street.

b. All intersections along Street S and Street H should permit all turning movements and have side-street stop-control.
c. Convert the area designated for the landscaped median to a westbound left-turn pocket on Street S at Street X, and a westbound left-turn pocket on Street H at Street KK.

**Primary Internal Minor Collector Street**

- The portion of Street H between the roundabout and Street A would have a width of 44 feet (from face of curb). The street segment just north of the roundabout is projected to carry about 2,700 ADT, so the omission of driveways and placement of masonry walls seems appropriate. North of Street M, Street H would include front-on residential to the west and a masonry wall to the east. To prevent speeding issues on the uninterrupted segment of Street H between the roundabout and Street A, the following is recommended:
    a. As with the southerly section of Street H, narrow the travel lane widths to 10 to 12 feet convert the 8-foot sidewalk into a 10-foot multi-use path. Any additional right of way width after narrowing the travel lane could be allocated to the landscape area between the parking lane and the 5-foot sidewalk.
    b. Implement traffic calming measures along Street H to slow vehicle speeds. Traffic calming treatments include pavement markings, speed feedback signs, and speed humps. Although not typically considered a form of traffic calming, an all-way stop at the Street H/Street M intersection could slow speeds and effectively regulate right-of-way.

**Entry Streets**

- Short entry streets connecting longer residential streets are proposed to mirror the general layout of collector streets and consist of one 16-foot travel lane in each direction separated by a landscaped median (Cross Section D). Both sides of the street would have five-foot sidewalks and masonry walls.
- The wide 16-foot travel lanes may assist with turning maneuvers into residential streets for utility service vehicles or waste management trucks. The proposed street layout is adequate given the projected vehicle types using these segments.

**Street H/Street S Roundabout**

- This roundabout is an adequate intersection treatment given the estimated traffic it would carry. The roundabout design should follow the guidance in *Roundabouts: An Informational Guide 2nd Edition* (NCHRP 672) including a variety of important roundabout design details such

as splitter islands, lateral transition, swept path analysis, yield bar location, placement of crosswalks, etc. The placement of splitter islands at the roundabout may affect placement of the driveway serving Lot 455.

**Park Basin (Lot Q) & Park Side Streets**

- Park side streets, Street S west of the roundabout and Street DD, are proposed to each consist of one travel lane in each direction. The streets have 14-foot travel lanes, 8-foot parking lanes, and a 5-foot sidewalk on the side of the street fronting houses.
- If this open space area is to be used for any type of active recreation (e.g., soccer fields, etc.), supplemental access and parking supply reviews may be necessary.
- Additional traffic calming in the form of bulb-outs and speed lumps may be considered later if speeding is observed on the corridor. See the Manteca Citywide Guidelines for Neighborhood Traffic Management for details.
- Bicycle racks should be provided at recreational facilities in the development to encourage ridership. The City of Manteca Active Transportation Plan provides guidance on bike rack selection.