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Final
Consistency Checklist
Prose Manteca Project
City of Manteca, San Joaquin County, California

State Clearinghouse Number 2002042088

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ACRONYMS AND ABBREVIATIONS

°C	degrees Celsius (Centigrade)
°F	degrees Fahrenheit
µg/m^3	micrograms per cubic meter
AAQA	Ambient Air Quality Analysis
AB	Assembly Bill
AERMOD	American Meteorological Society/EPA Regulatory Model
Air Basin	San Joaquin Valley Air Basin
APN	Assessor's Parcel Number
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
AQP	Air Quality Plan
ARB	California Air Resources Board
ASF	age sensitivity factors
BAU	Business as Usual
BERD	California Built Environment Resource Directory
BMP	Best Management Practice
BRA	Biological Resources Assessment
CalEEMod	California Emissions Estimator Model
CalRecyle	California Department of Resources Recycling and Recovery
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CBC	California Building Standards Code
CCIC	Central California Information Center
CDF	California Department of Finance
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CMU	Commercial Mixed Use
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Society
CO	carbon monoxide
CO_2e	carbon dioxide equivalent
COG	Council of Governments
CPF	cancer potency factor
CPUC	California Public Utilities Commission

CRHR	California Register of Historical Resources
CWA	Clean Water Act
dBA	A-weighted decibel
DBR	daily breathing rate
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EIR	Environmental Impact Report
EMFAC	Emission Factors mobile source emissions model
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
EV	electric vehicle
EVA	Emergency Vehicle Access
FAR	floor area ratio
FCS	FirstCarbon Solutions
FEIR	Final Environmental Impact Report
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FMMP	Farmland Mapping and Monitoring Program
FTA	Federal Transit Administration
GAMAQI	Guidance for Assessing and Mitigating Air Quality Impacts
GHG	greenhouse gas
HI	hazard index
HRA	Health Risk Assessment
HVAC	heating, ventilation, and air conditioning
in/sec	inch per second
kBTU	kilo-British Thermal Unit
kWh	kilowatt-hour
lbs/day	pounds per day
LCFS	Low Carbon Fuel Standard
L_{dn}	day-night noise level
L_{eq}	equivalent noise level
LEV	Low Emission Vehicle
L_{max}	maximum noise/sound level
LOS	Level of Service
MBTA	Migratory Bird Treaty Act
MDR	Medium Density Residential

MIR	Maximally Impacted Sensitive Receptor
MM	Mitigation Measure
MMRP	Mitigation Monitoring and Reporting Program
mph	miles per hour
MT	metric tons
MUSD	Manteca Unified School District
NAHC	Native American Heritage Commission
NEPA	National Environmental Policy Act
NFHL	National Flood Hazard Layer
NO_2	nitrogen dioxide
NO_X	nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
OEHHA	California Office of Environmental Health Hazard Assessment
OHP	California Office of Historic Preservation
PD	Planned Development Overlay
PG&E	Pacific Gas and Electric Company
PM_{10}	particulate matter less than 10 microns in diameter
$PM_{2.5}$	particulate matter less than 2.5 microns in diameter
PPV	peak particle velocity
RC	Resource Conservation
REC	Recognized Environmental Condition
REL	Reference Exposure Level
ROG	reactive organic gases
RPS	Renewal Portfolio Standard
RTP/SCS	Regional Transportation Plan and Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SB	Senate Bill
SCH	State Clearinghouse
SJMSCP	San Joaquin County Multi-Species Habitat Conservation and Open Space Plan
SLCP	Short-Lived Climate Pollutant
SLF	Sacred Lands File
SMAQMD	Sacramento Metro Air Quality Management District
SO_2	sulfur dioxide
South Coast AQMD	South Coast Air Quality Management District
SO_X	sulfur oxide
SR	State Route
SWPPP	Storm Water Pollution Prevention Plan

TAC	toxic air contaminate
TCR	Tribal Cultural Resources
UBC	Uniform Building Code
UCMP	University of California Museum of Paleontology
USACE	United States Army Corps of Engineers
UWMP	Urban Water Management Plan
Valley Air District	San Joaquin Valley Air Pollution Control District
VMT	Vehicle Miles Traveled
VOC	volatile organic compound
WELO	Water Efficient Landscape Ordinance
WQCF	Wastewater Quality Control Facility
ZEV	Zero-Emission Vehicle

SECTION 1: INTRODUCTION

This Consistency Checklist and attached supporting documents have been prepared to determine whether and to what extent the Manteca General Plan 2023 Final Environmental Impact Report (General Plan FEIR) (State Clearinghouse [SCH] No. 2002042088) prepared for the City of Manteca remains sufficient to address the potential impacts of the proposed Prose Manteca Project (proposed residential project) and associated Drain No. 5 undergrounding project (proposed Drain No. 5 off-site improvements), or whether additional documentation is required under the California Environmental Quality Act (CEQA) (Public Resources Code [PRC], § 21000, *et seq*.)

1.1 - CEQA Assessment

The following Environmental Checklist has been prepared pursuant to CEQA Guidelines Section 15183 (Projects Consistent with a Community Plan or Zoning) to determine whether the proposed residential project and proposed Drain No. 5 off-site improvements require additional environmental review.

CEQA Guidelines Section 15183 mandates that projects which are consistent with the development density established by existing zoning, community plan or general plan policies for which an FEIR was certified (in this case, the Manteca General Plan 2023 FEIR [General Plan FEIR]) shall not require additional environmental review, except as might be necessary to examine whether there are project-specific significant effects which are peculiar to the project or its site.

1.2 - Summary of Results

This Environmental Checklist concludes that the proposed residential project and proposed Drain No. 5 off-site improvements fall within the scope of the project evaluated in the General Plan FEIR and, therefore, no further environmental review is required.

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SECTION 2: PROJECT DESCRIPTION

2.1 - Project Location

The approximately 18.15 acre residential project site is located at 1563 and 1625 West Yosemite Avenue, in the City of Manteca, California; the proposed Drain No. 5 off-site improvements are located adjacent to and immediately north of the proposed residential project (see Exhibit 1 and Exhibit 2). The residential project site is currently undeveloped and is bordered by a drainage canal (Drain No. 5) and the Manteca Park Golf Course to the north, residential, commercial, and retail uses to the east, West Yosemite Avenue and commercial uses to the south, and Kaiser Permanente Medical Center and vacant land to the west. Drain No. 5 is located between the proposed residential project to the south and the Manteca Golf Course to the north. It is bordered on the east by an undergrounded portion of Drain No. 5; Drain No. 5 continues to the west as an open ditch. The residential project site includes two Assessor's Parcel Numbers (APNs) 200-150-260 and APN 200-150-270.[1] The proposed Drain No. 5 off-site improvements are located on City-owned property identified as APN 200-150-310, which includes the Manteca Park Golf Course.

2.2 - Existing Conditions

The approximately 18.15-acre rectangularly- shaped residential project site is currently vacant and undeveloped. The approximately 0.172-acre (675 linear feet) Drain No. 5 serves as a regional storm drain canal.

The residential project site is mapped as Farmland of Local Importance by the California Department of Conservation Farmland Mapping and Monitoring Program (FMMP).[2] Review of historic maps and photographs indicated farming operations occurred at the residential project site as far back as 1937.[3] However, the site is currently vacant and no longer supports farming.

The proposed Drain No. 5 off-site improvements are mapped by the FMMP as Urban and Built-up Land.[4] A historic aerial photograph, dated 1937, identifies a creek adjacent to the northern border of the residential project site. The golf course north of the proposed Drain No. 5 off-site improvements was constructed circa 1968.[5]

The Manteca General Plan 2023 (General Plan) designates the residential project site as Commercial Mixed Use (CMU) (see Exhibit 3). This land use designation allows for a floor area ratio (FAR) of 1, a Maximum Site Coverage of 50 percent, and 15.1 to 25 dwelling units per acre. It is intended to

[1] The total size of the two parcels is 18.64 acres. However, the project site does not extend to the parcel line, which is in West Yosemite Avenue, and is therefore, smaller than the total parcels size.
[2] California Department of Conservation. 2016. California Important Farmland Finder. Website: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed June 9, 2022.
[3] ENGEO. 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, CA. December 6.
[4] California Department of Conservation. 2016. California Important Farmland Finder. Website: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed June 9, 2022.
[5] ENGEO. 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, CA. December 6.

accommodate a variety of purposes including high-density residential, employment centers, retail commercial, and professional offices.[6]

The General Plan designates the proposed Drain No. 5 off-site improvement area as Park (P) (see Exhibit 3). This designation provides for neighborhood, community and regional parks, golf courses, and other outdoor recreational facilities within urban development. Various specific uses are included in this designation, including recreation sites and landscaping.[7]

The residential project site is zoned CMU (see Exhibit 4).[8] This zoning district's intention is similar to that of the General Plan land use designation in accommodating a variety of uses including high-density residential, employment centers, retail commercial, and professional offices.[9] The proposed Drain No. 5 off-site improvement area is zoned P (see Exhibit 4), which is also similar to the General Plan land use designation and allows for neighborhood, community, and regional parks, golf courses, and other outdoor recreational facilities within urban development.

2.3 - Project Background

The Manteca City Council adopted the General Plan and certified the associated FEIR in 2003. The City Council adopted updates to the Housing, Circulation, Air Quality, and Safety Elements between 2010 and 2016. The City of Manteca (City) is currently undertaking a General Plan Update, which proposes to maintain the CMU land use designation for the project site. The General Plan Update also proposes to place the site in Policy Area No. 1, which is envisioned to be a master planned residential community with high quality parks, community-serving commercial uses, and residential development ranging from very low to high-density residential in order to accommodate a broad range of housing types, including executive housing and workforce housing.[10]

2.4 - Project Description

2.4.1 - Summary

The residential project site consists of two parcels of vacant land with a combined area of approximately 18.15 acres, fronting on West Yosemite Avenue at the intersection of Winters Drive. The residential project site is adjacent to Kaiser Permanente Medical Center on the west and a single-story commercial complex and medium density multi-family residential use on the east, a drainage canal (Drain No. 5) and the Manteca Park Golf Course to the north, and Yosemite Avenue to the south. As shown in Exhibit 5a, the proposed residential project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and

6 City of Manteca. 2003. General Plan 2023. Adopted October 6.
7 Ibid.
8 City of Manteca. 2019. Zoning. May. Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Planning%20Division/Planning%20Division%20Documents/Maps/Zoning%2024x36%20June%202019.pdf. Accessed June 30, 2022.
9 Manteca Municipal Code. Chapter 17.20.020 Zoning Districts. Website: https://library.qcode.us/lib/manteca_ca/pub/municipal_code/item/title_17-article_ii-chapter_17_20-17_20_020. Accessed June 30, 2022.
10 City of Manteca. 2021. Public Review Draft General Plan. March. Website: https://manteca.generalplan.org/. Accessed June 30, 2022.

landscaping. A total of 190 units (approximately 45 percent), would be 1-bedroom units; 230 units (approximately 55 percent), would be 2-bedroom units.

Drain No. 5, a regional storm drain canal, is located outside of the residential project site and is not part of the proposed residential project. As part of processing the application for the proposed residential project, the City is requiring undergrounding of Drain No. 5, which does not serve the project site, to conform to the undergrounded portion to the east. The proposed Drain No. 5 off-site improvements would include the placement of a 60-inch pipe, approximately 675 feet in length into the canal. The canal would them be backfilled with approximately 896 cubic yards of fill material (see Exhibit 5b).

2.4.2 - Access, Circulation, and Parking

Manteca Municipal Code 17.52.050, Number of Parking Spaces Required, identifies the following requirement for multi-family residential units (townhome, condominium, and apartment):

- One covered space per dwelling unit, plus
- 0.5 space per 1-bedroom unit, and
- One space per 2- or more bedroom units.[11]

According to these requirements, each of the 190 1-bedroom units would require 1.5 parking spaces, or 285 spaces, and each of the 230 2-bedroom units would require two parking spaces, or 460 spaces, for a total of 745 required spaces. The proposed residential project would provide 746 surface parking spaces.

Center Street, located east of the project site, currently terminates at the residential project site's eastern boundary (Exhibit 5a). As part of the proposed residential project, this road would be extended through the residential project site, as shown in Exhibit 5a. The northern portion of the proposed residential project would have three driveways connecting to Center Street, while the southern portion of the proposed residential project would have two driveways connecting to Center Street and one driveway connecting to West Yosemite Avenue. As shown in Exhibit 5a, the West Yosemite Avenue driveway would serve as the fourth leg of the West Yosemite Avenue/Winters Drive intersection.

No access, circulation, or parking facilities are proposed for the proposed Drain No. 5 off-site improvements.

2.4.3 - Utilities

- **Storm Drainage:** The proposed residential project would utilize the City's storm drainage system.
- **Water**: Water for the proposed residential project would be provided by the City.

[11] City of Manteca. Manteca Municipal Code 17.52.050 Number of Parking Spaces Required. Website: https://library.qcode.us/lib/manteca_ca/pub/municipal_code/item/title_17-article_iii-chapter_17_52-17_52_050. Accessed June 30, 2022.

- **Wastewater**: Wastewater services for the proposed residential project would be provided by the City.
- **Gas and Electricity**: Gas and Electricity for the proposed residential project would be provided by Pacific Gas and Electric Company (PG&E).

Storm Drainage

The proposed residential project would connect to the municipal storm drain system west of the residential project site. The proposed residential project's storm drainage system would consist of the construction of five bioretention areas and the incorporation of an existing retention basin along the western edge of the residential project site (Exhibit 5b), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment condition of the project site.

Service laterals would connect to existing lines. Water and sanitary sewer lines would connect to existing lines west of the project site, and fire service water lines would connect to existing facilities on West Yosemite Avenue.

2.4.4 - Roadway Improvements

As part of the proposed residential project, West Center Street would be extended and would transect the northern portion of the residential project site from east to west. Improvements to the intersection of West Yosemite Avenue and Winters Drive at the south end of the residential project site would include curb and signal modifications to provide a full service, signalized entrance to the residential project site.

No roadway improvements are proposed for the proposed Drain No. 5 off-site improvements.

2.4.5 - Neighboring Parcels

Neighboring development includes a drainage canal (Drain No. 5) and Manteca Park Golf Course to the north, multi-family, office and retail uses to the east, Yosemite Avenue to the south, and Kaiser Permanente Medical Center to the west (see Exhibit 2).

The existing stormwater drainage basin, located along the western edge of the residential project site (see Exhibit 6), would continue to accept runoff from the adjacent Kaiser Permanente Medical Center to the west of the residential project site.

Vacant, undeveloped land is located west of the residential project site, just north of the Kaiser Permanente Medical Center. The General Plan land use designation for this area is Medium Density Residential (MDR), 8.1 to 15 dwelling units per acre, and the property is zoned Planned Development Overlay (PD). However, the General Plan Update currently in development by the City, proposes a land use designation of CMU for this area (similar to the residential project site) and also proposes to include the area within Policy Area No. 1 (also similar to the residential project site).

The proposed Drain No. 5 off-site improvements are located between the residential project site to the south and the Manteca Park Golf Course to the north (Exhibit 2). The eastern extension of Drain No. 5 is already undergrounded; the drain continues to the west as an open ditch.

2.5 - Discretionary Approvals

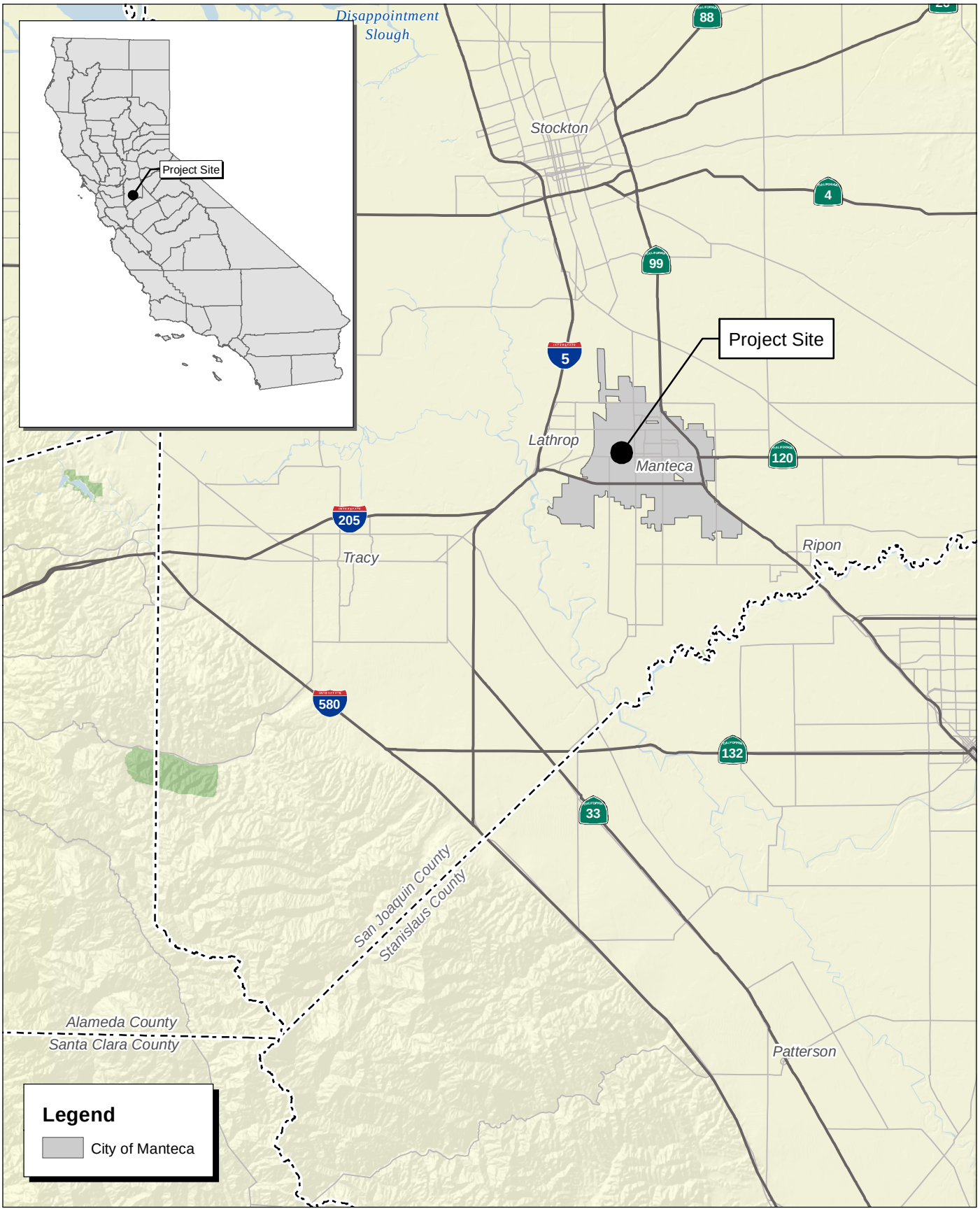
The proposed residential project would require the following discretionary approvals from the City of Manteca:

- Adoption of updated Mitigation Monitoring and Reporting Program (MMRP), confirming applicable mitigation from the General Plan FEIR

The proposed Drain No. 5 off-site improvements would require the following permits:

- United Stated Army Corps of Engineers (USACE): Nationwide Permit under Section 404 of the Clean Water Act (CWA)
- Central Valley Regional Water Quality Control Board (Central Valley RWQCB): Water Quality Certification under Section 401 of the CWA
- California Department of Fish and Wildlife (CDFW): Streambed Alteration Agreement under Section 1602 of the California Fish and Game Code

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Source: Census 2000 Data, The California Spatial Information Library (CaSIL).

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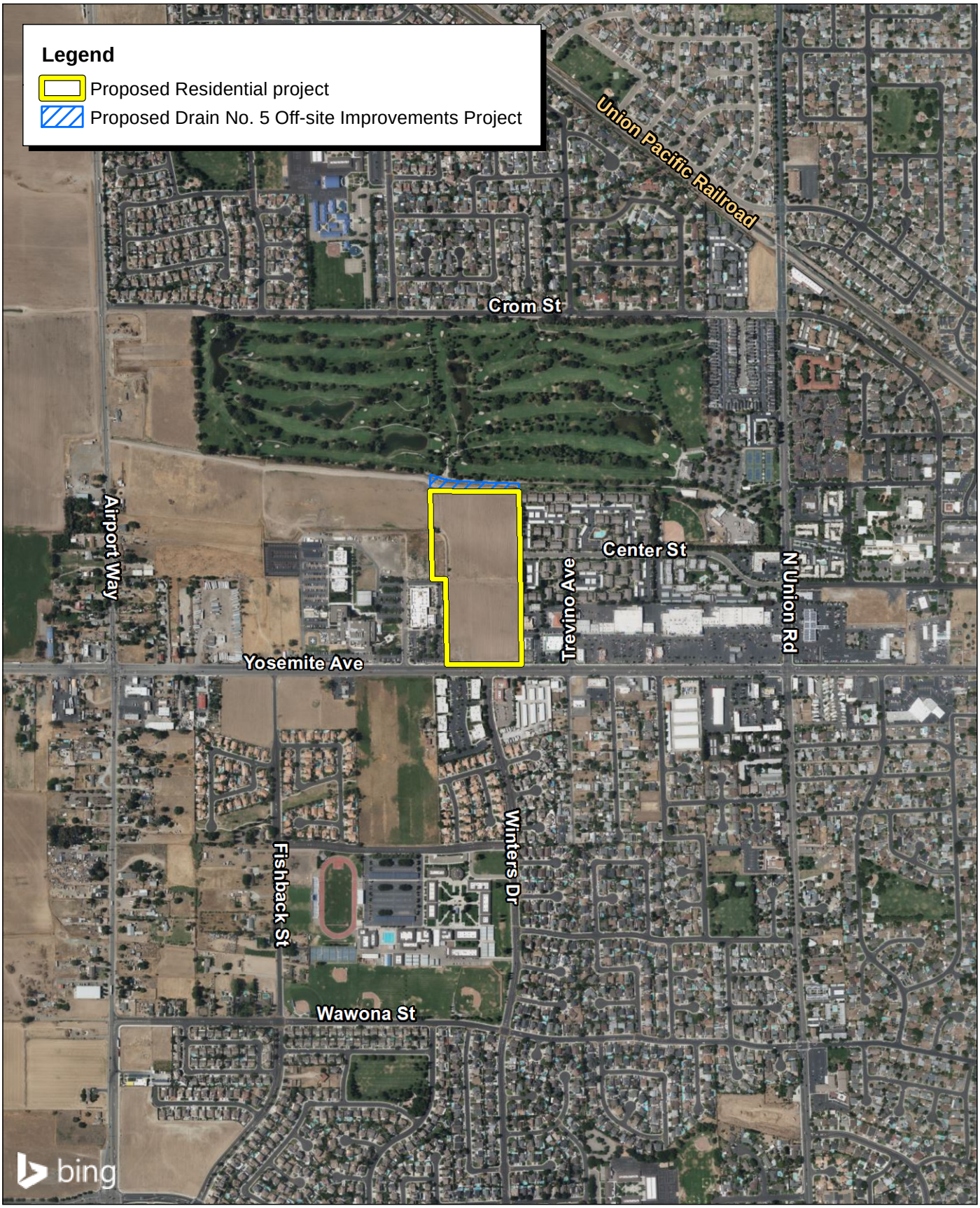
5 2.5 0 5 Miles

Exhibit 1
Regional Location Map

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA
INITIAL STUDY/CONSISTENCY CHECKLIST

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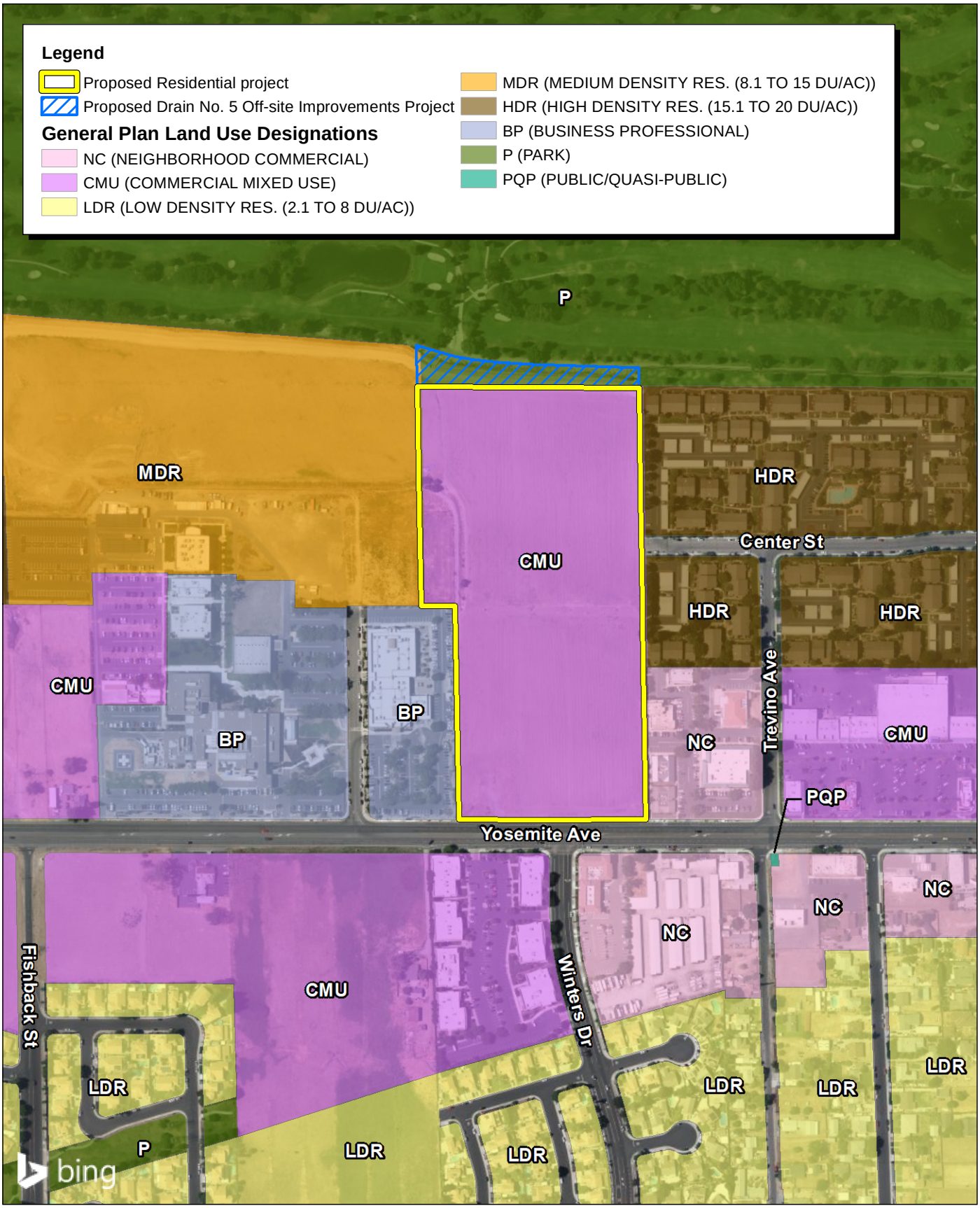
Source: Bing Aerial Imagery.

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1,000 500 0 1,000 Feet

Exhibit 2
Local Vicinity Map

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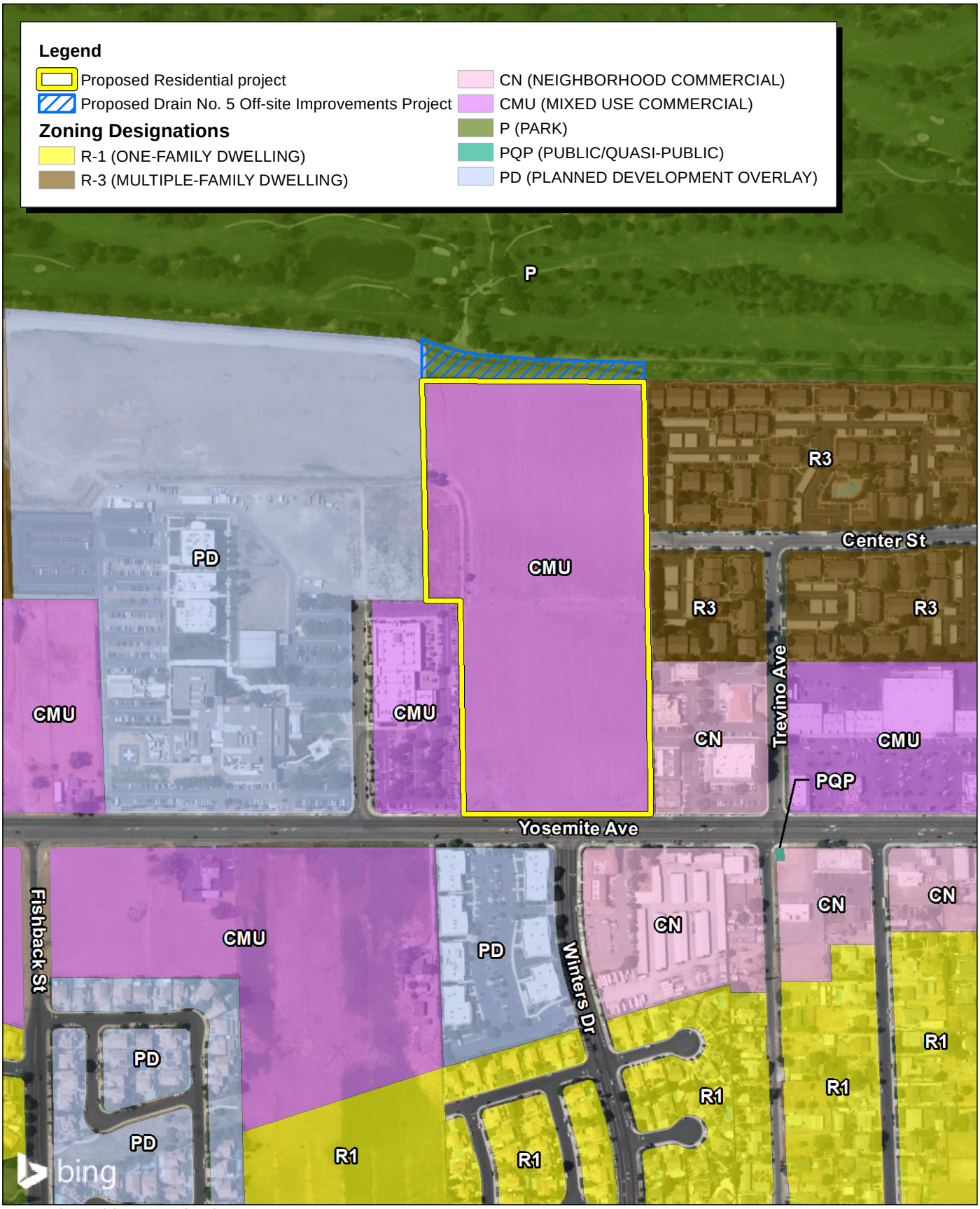
Source: Bing Aerial Imagery. City of Manteca GIS Open Data.

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400 200 0 400
Feet

Exhibit 3
General Plan Land Use Designation

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Source: Bing Aerial Imagery. City of Manteca GIS Open Data.

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Feet

Exhibit 4
Zoning Designation

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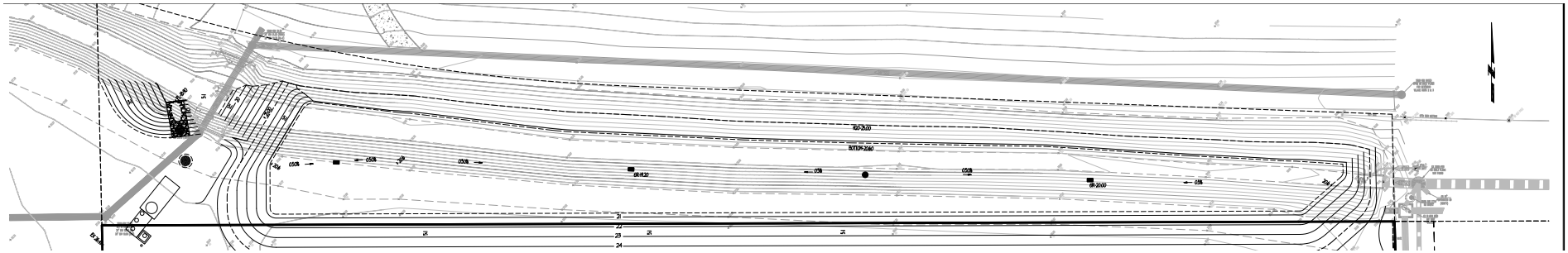


Source: KIER + WRIGHT, 06/29/2022.

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Exhibit 5a
Site Plan: Proposed Residential Project

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Source: RLC Associates, January 2016.

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Exhibit 5b
Site Plan: Proposed Drain No. 5 Off-site Improvements Project

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Source: KIER + WRIGHT, November, 2021.

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Exhibit 6
Existing Storm Drain Basin and Proposed Bioretention Basins

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SECTION 3: CEQA GUIDELINES SECTION 15183: PROJECTS CONSISTENT WITH A COMMUNITY PLAN OR ZONING

CEQA Guidelines Section 15183 mandates that projects which are consistent with the development density established by existing zoning, community plan, or general plan policies for which a Final EIR was certified shall not require additional environmental review, except as might be necessary to examine whether there are project-specific significant effects which are peculiar to the project or its site. This streamlines the review of such projects and reduces the need to prepare repetitive environmental studies.

Proposed Project Qualifies for No Further Environmental Review Under CEQA Guidelines Section 15183

CEQA Section 15183 applies to the project since it meets all of the following conditions.

(d)(1)(B) The project is consistent with a zoning action which zoned or designated the parcel on which the project would be located to accommodate a particular density of development.

Consistent: The residential project site is designated "Commercial Mixed Use" and the Drain No. 5 off-site improvements site is designated "Park" by the Manteca Zoning Ordinance.

(d)(1)(C) The project is consistent with the City of Manteca General Plan.

Consistent: The residential project site is designated "Commercial Mixed Use" and the Drain No. 5 off-site improvements site is designated "Park" by the General Plan.

(d)(2) An EIR was certified by the lead agency for the zoning action, the community plan, or the general plan.

Consistent: The City prepared a Final EIR for the General Plan, which was certified by the Manteca City Council on October 6, 2003.

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SECTION 4: ENVIRONMENTAL CHECKLIST

CEQA Guidelines Section 15183(b) states that:

> In approving a project meeting the requirements of this section, a public agency shall limit its examination of environmental effects to those which the agency determines, in an initial study or other analysis:
>
> (1) Are peculiar to the project or the parcel on which the project would be located;
>
> (2) Were not analyzed as significant effects in a prior FEIR on the zoning action, general plan, or community plan, with which the project is consistent;
>
> (3) Are potentially significant off-site impacts and cumulative impacts which were not discussed in the prior FEIR prepared for the General Plan, Community Plan, or zoning action; or
>
> (4) Are previously identified significant effects which, as a result of substantial new information which was not known at the time the FEIR was certified, are determined to have a more severe adverse impact than discussed in the prior Final EIR.

The following pages of this document contain an Environmental Checklist that examines the project's potential environmental effects within the parameters outlined at CEQA Guidelines Section 15183(b). The "Prior FEIR" used for comparison is the Manteca General Plan 2023 EIR (certified by the Manteca City Council on October 6, 2003, including all impact determinations and significance thresholds utilized therein).

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Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.1 Aesthetics *Except as provided in Public Resources Code Section 21099, would the project:*					
a) Have a substantial adverse effect on a scenic vista?	Significant unavoidable impact	No	No	No	No
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic building within a State Scenic Highway?	N/A	No	No	No	No
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?	Significant unavoidable impact	No	No	No	No
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Scenic Vista

Would the project: *Have a substantial adverse effect on a scenic vista?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on scenic vistas because new development would impact the current views of open space, which are primarily vistas of agricultural fields and orchards. The General Plan FEIR sets forth Mitigation Measure (MM) AV-1.1 to reduce the severity of the impact by requiring new development to maximize the potential for open space and visual experiences. However, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

The proposed Drain No. 5 off-site improvements consist of the installation of approximately 675 linear feet of a 60-inch pipe and placement of approximately 896 cubic yards of fill material. The undergrounded canal would not be visible and would not therefore have any effect on any scenic vista.

The proposed residential project consists of the development of 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings. The residential project site has the land use designation 'CMU,' and the proposed multi-family residential development is consistent with that land use designation. The proposed Drain No. 5 off-site improvements consist of the installation of approximately 675 linear feet of a 60-inch pipe and placement of approximately 896 cubic yards of fill material. The site of the proposed Drain No. 5 off-stie improvements has land use designation of 'P'; the proposed drain undergrounding would be consistent with that land use designation.

While the proposed residential project would convert undeveloped land into a 'CMU' use, there are no designated scenic vistas or other scenic resources within the residential project site or its vicinity. Furthermore, the area surrounding the residential project site is urbanized with commercial, residential, medical, and recreational uses. Finally, the residential project would undergo review by the City Planning Division which would ensure it adheres to the General Plan policies and mitigation measures as well as follows good design principles. Therefore, the proposed residential project would not result in new or more severe impacts than what was previously disclosed in the General Plan FEIR. No additional analysis is required.

b) State Scenic Highways

Would the project: *Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic building within a State Scenic Highway?*

The General Plan FEIR did not address State Scenic Highways. There are no Officially Designated or Eligible State Scenic Highways within the General Plan Planning Area (Planning Area). Therefore, there is no possibility of substantial damage to the viewshed of a State Scenic Highway. No impact would occur.

The closest Officially Designated State Scenic Highway is Interstate 580 (I-580), approximately 15 miles southwest of the project site, which is not visible because of the distance and intervening development.[12] Therefore, no adverse impacts would occur as a result of implementation the residential project or the proposed Drain No. 5 off-site improvements. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Visual Character

Would the project: *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*

[12] California Department of Transportation (Caltrans). 2018. California State Scenic Highway System Map. Website: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa. Accessed February 2, 2022.

an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on visual character. The General Plan FEIR set forth MM AV-2.1 to reduce the severity of the impact by promoting the provisions of public and private open space within urbanized parts of the City, in order to provide visual contrast with the built environment and to provide for the recreations needs of residents. However, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

Both the residential project site and the Drain No. 5 off-site improvements site are located in an urbanized area and are surrounded by urban uses such as residential uses, a golf course, commercial uses, and medical uses. The proposed residential project would change the visual character of the area by converting an undeveloped project site into a residential use. However, the General Plan designates the project site for 'CMU' use, which allows for multi-family residential uses. The proposed Drain No. 5 off-site improvements would underground an open canal, which would not change the visual character of the area.

The 'CMU' land use designation allows for 15.1 to 25 dwelling units per acre. The proposed residential project would construct a total of 420 multi-family residential units on 18.64 acres, which is approximately 23 units per acre. The proposed residential project would be compliant with this density standard.

The 'CMU' land use designation allows for an FAR of 1.0 and a Maximum Site Coverage of 50 percent. The proposed residential project would have an FAR of 0.59 and 31.8 percent building coverage. Therefore, it would be compliant with this FAR standard.

According to City Ordinance O2022-14, the 'CMU' zone allows for a maximum building height of 45-feet.[13] The height of the proposed multi-family residential units is 35 feet, which is within the ordinance limit. The proposed residential project would also be required to comply with General Plan FEIR MM AV-1.1 and MM AV-2.1, which would be enforced during the review by the City's Planning Division. As such, the proposed residential project would not conflict with applicable zoning and other regulations governing scenic quality. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

d) Light or Glare

Would the project: *Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact in terms of introducing new sources of substantial light or glare. The General Plan FEIR set

[13] City of Manteca. 2022. Ordinance O2022-14. June 7. Website: https://content.qcode.us/lib/manteca_ca/alerts/documents/ordinance_o2022_14.pdf. Accessed July 21, 2022.

forth MM AV-3.1 to reduce the severity of the impact by requiring the use of downward facing lighting to reduce the potential for trespass onto adjacent properties. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The General Plan designates the residential project site for 'CMU' use and the proposed residential project is consistent with that land use designation. The area surrounding the residential project site is urbanized and has sources of light and glare created by streetlights, car headlights, and interior and exterior lighting from buildings. There is an existing streetlight south of the project site along West Yosemite Avenue. The proposed residential project would create additional sources of light and glare from car headlights circling the project site as well as interior and exterior lighting from the proposed buildings. However, the proposed residential project would be required to implement MM AV-3.1 and provide minimal but appropriate levels of lighting as well as full cut-offs or shielding to limit light trespass. The proposed Drain No. 5 off-site improvements do not include any structures that could be the source of light or glare. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure AV-1.1

AV-1.1 The Resource Conservation Element of the General Plan provides the following policy regarding existing scenic vistas:

RC-P-17 New development shall maximize the potential for open space and visual experiences.

General Plan FEIR Mitigation Measure AV-2.1

AV-2.1 Resource Conservation Element of the General Plan provides the following goal to maintain existing visual character:

RC-P-15 Promote the provisions of public and private open space within urbanized parts of the City, in order to provide visual contrast with the built environment and to provide for the recreations needs of residents.

General Plan FEIR Mitigation Measure AV-3.1

AV-3.1 The Community Design Element of the General Plan provides the following policies to mitigate the degradation of the existing night sky amenity in the City:

CD-P-44 Provide minimal levels of street, parking, building, site, and public area lighting to meet safety standards and provide direction.

CD-P-45 Provide directional shielding for all exterior lighting to minimize the annoyance of direct or indirect glare.

CD-P-46	Provide automatic shutoff or motion sensors for lighting features in newly developed areas.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.2 Agriculture and Forest Resources *In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the State's inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment project; and forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:*					
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?	Significant unavoidable impact	No	No	No	No
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	Significant unavoidable impact	No	No	No	No
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))?	N/A	No	No	No	No
d) Result in the loss of forest land or conversion of forest land to non-forest use?	N/A	No	No	No	No
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Conversion of Important Farmland

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

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on conversion of Important Farmland. The General Plan FEIR set forth MM AG-1.1 and MM AG-1.2 to reduce the severity of the impact by protecting Important Farmland within the City and by directing the major growth area, as defined by the Primary Urban Service Boundary, in a manner that avoids Prime Farmlands where feasible. However, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

As shown in Exhibit 7, the residential project site is mapped as Farmland of Local Importance and the Drain No. 5 off-site improvements site is mapped as Farmland of Local Importance and Urban and Built-up Land by the California Department of Conservation FMMP.[14,15] Review of historic maps and photographs indicated farming operations at the residential project site as far as 1937.[16] However, both sites are currently vacant and the residential project site no longer supports farming.

The General Plan designates the residential project site as 'CMU,' and the proposed residential development would be consistent with that land use designation. The General Plan designates the Drain No. 5 off-site improvements site as 'P,' and the proposed drain undergrounding would be consistent with that land use designation. To the extent that the development of the proposed residential project converts Farmland to nonagricultural use, this was previously considered by the General Plan FEIR. For these reasons, both the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. Implementation of MM AG-1.1 and AG-1.2 would not be required, and no additional analysis is required.

b) Agricultural Zoning and Williamson Act Contracts

Would the project: *Conflict with existing zoning for agricultural use, or a Williamson Act Contract?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on cancellation of Williamson Act contracts and conflicts with agricultural zoning. The General Plan FEIR set forth MM AG-2.1 to reduce the severity of the impact, by protecting designated agricultural lands without placing an undue burden on agricultural landowners and by discouraging the cancellation of Williamson Act contracts outside the Primary Urban Service Boundary line. However, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

[14] California Department of Conservation. 2016. California Important Farmland Finder. Website: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed June 9, 2022.
[15] Ibid.
[16] ENGEO. 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, CA. December 6.

According to Figure 4-3 in the General Plan FEIR, the residential project site and the Drain No. 5 off-site improvements site are not subject to a Williamson Act contract. The development of the proposed residential project and the proposed Drain No. 5 off-site improvements would have no impacts or conflicts with Williamson Act contracts or agricultural zoning. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. Implementation of MM AG-2.1 would not be required, and no additional analysis is required.

c-d) Forest Zoning and Conversion of Forest Land

Would the project: *Conflict with existing zoning for forest land or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?*

Would the project: *Result in the loss of forest land or conversion of forest land to non-forest use?*

The General Plan FEIR did not address conflicts with forest zoning or conversion of forest land. There are no forest lands within the Planning Area. Furthermore, neither the General Plan nor the Manteca Zoning Ordinance contains a Forest Zoning District. Therefore, there is no possibility of conflicts with forest zoning or conversion of forest land. The residential project site is zoned 'CMU' and the Drain No. 5 off-site improvements site is zoned 'P' by the Manteca Zoning Ordinance, both of which are non-forest designations. No impact would occur.

e) Pressures to Convert Farmland or Forest Land

Would the project: *Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forest land to non-forest use?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on pressures to convert farmland or forest land. The General Plan FEIR set forth MM AG-3.1 to reduce the severity of the impact by maintain agricultural use with the City. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The residential project site is mapped as Farmland of Local Importance by the California Department of Conservation FMMP.[17] Review of historic maps and photographs indicated farming operations at the project site as far as 1937 and the construction of the golf course circa 1968.[18] However, the residential site is currently vacant and no longer supports farming. The proposed residential project would convert Farmland to a nonagricultural use; however, this conversion was previously considered by the General Plan FEIR. The proposed residential project would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. Implementation of MM AG-3.1 would not be required, and no additional analysis is required.

[17] California Department of Conservation. 2016. California Important Farmland Finder. Website: https://maps.conservation.ca.gov/DLRP/CIFF/. Accessed June 9, 2022.

[18] ENGEO. 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, CA. December 6.

The proposed Drain No. 5 off-site improvements site is mapped as Farmland of Local Importance Urban and Built-up Land. However, the Drain No. 5 off-site improvements site is currently vacant and does not support farming. The proposed Drain No. 5 off-site improvements would convert Farmland to a nonagricultural use; however, this conversion was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. Implementation of MM AG-3.1 would not be required, and no additional analysis is required.

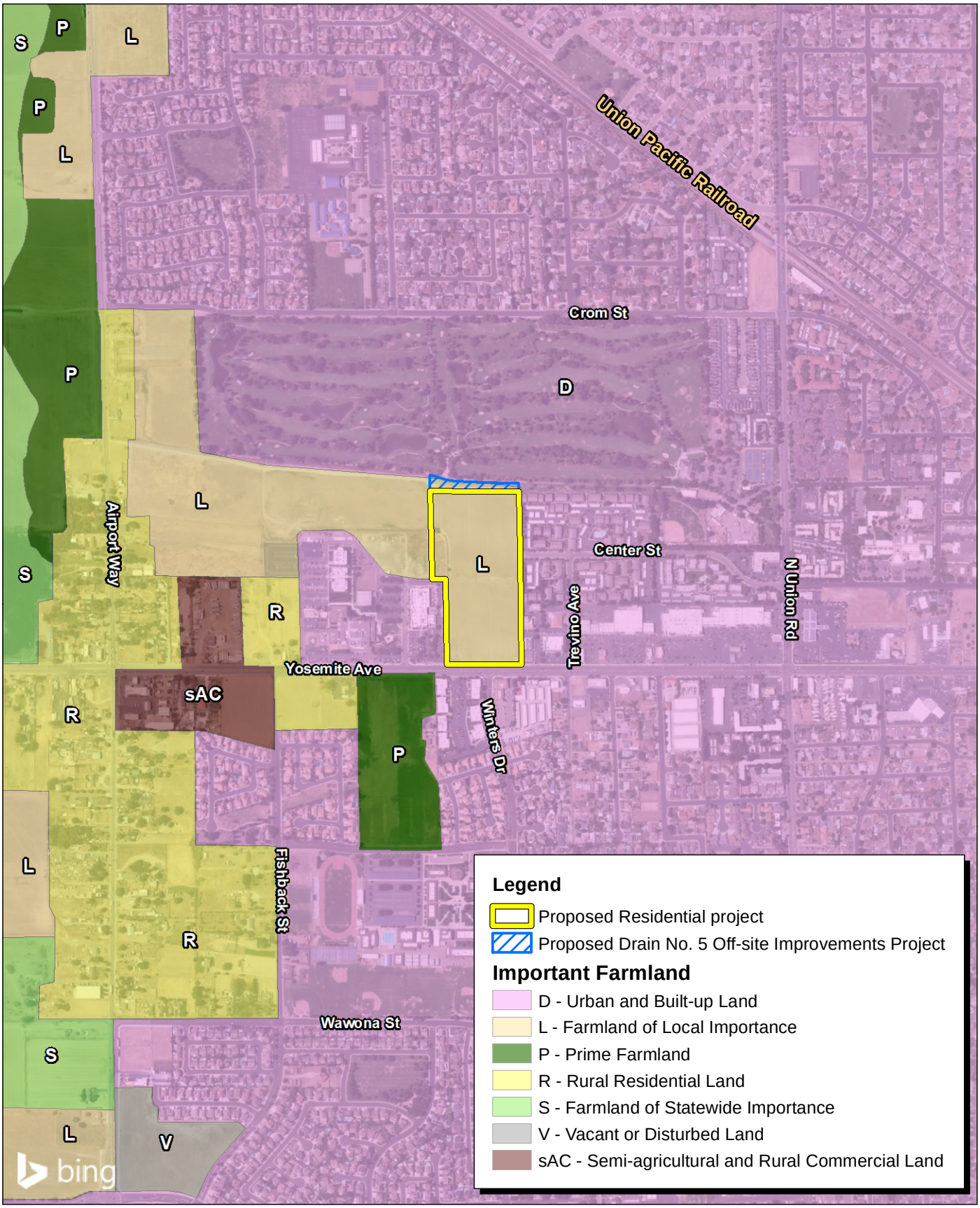
General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

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Source: Bing Aerial Imagery. California Department of Conservation, Farmland Mapping and Data.

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Exhibit 7
Important Farmland Map

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Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.3 Air Quality *Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.* *Would the project:*					
a) Conflict with or obstruct implementation of the applicable air quality plan?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or State ambient air quality standard?	Significant unavoidable impact	No	No	No	No
c) Expose sensitive receptors to substantial pollutant concentrations?	Less than significant impact with mitigation incorporated	No	No	No	No
d) Result in other emissions (such as those leading to odors or) adversely affecting a substantial number of people?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Air Quality Plan Conflict

Less than significant impact. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact in terms of conflicts with an Air Quality Management Plan (AQMP). To mitigate potential impacts, the General Plan FEIR set forth Goal AQ-1, Policy AQ-P-1, and Implementation Measure AQ-I-1, which would require coordination with the San Joaquin Valley Air Pollution Control District (Valley Air District) to implement the AQMP, and AQ-I-2, which would require submittal of development proposals to the Valley Air District for review and comment prior to decision, to reduce the severity of the impact. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

This document proposes the following criteria for determining project consistency with the current Air Quality Plans (AQPs):

1. Will the project conform to the growth assumptions in the AQPs?
2. Will the project comply with applicable control measures in the AQPs?

The use of the criteria listed above is a standard approach for CEQA analysis of projects in the Valley Air District jurisdiction, as well as within other air districts, for the following reasons:

- AQP emissions inventories and attainment modeling are based on growth assumptions for the area within the air district's jurisdiction.
- AQPs rely on a set of air district-initiated control measures as well as implementation of federal and State measures to reduce emissions within their jurisdictions, with the goal of attaining the air quality standards.

AQPs are plans for reaching attainment of air quality standards. The assumptions, inputs, and control measures are analyzed to determine whether the San Joaquin Valley Air Basin (Air Basin) can reach attainment for the ambient air quality standards. In order to show attainment of the standards, the Valley Air District analyzes the growth projections in the valley, contributing factors in air pollutant emissions and formations, and existing and adopted emissions controls. The Valley Air District then formulates a control strategy to reach attainment that includes both State and Valley Air District regulations and other local programs and measures.

Consistency with Assumptions in AQPs

A method for determining consistency with the AQP's assumptions is determining consistency with the applicable General Plan to ensure that the proposed residential project's population density and land use are consistent with the growth assumptions used in the AQPs for the Air Basin.

The development of emission burdens used in AQPs to demonstrate compliance with ambient air quality standards is based, in part, on land use patterns established within local general plans. Therefore, it is reasonable to conclude that if a project is consistent with the applicable general plan land use designation, and the general plan was adopted prior to the applicable AQP, then the growth of Vehicle Miles Traveled (VMT) and/or population generated by the proposed residential project would be consistent with the growth in VMT and population assumed within the AQP.

The proposed residential project consists of the development of 420 multi-family residential housing project on the 18.15-acre project site. Additionally, an off-site improvements project is proposed consisting of the undergrounding of a regional storm drain canal (Drain No. 5) located to the north of the proposed residential project site. The proposed Drain No. 5 off-site improvements consists of installation of approximately 675 linear feet of a 60-inch pipe and placement of approximately 896 cubic yards of fill material. The General Plan designates the residential project site for 'CMU' and the land use designation allows for a FAR of 1, a Maximum Site Coverage of 50 percent, and 15.1 to 25 dwelling units per acre. The General Plan zoning is intended to accommodate a variety of purposes including high-density residential, employment centers, retail commercial, and professional offices. The Drain No. 5 off-site improvements site is designated as 'P' by the General Plan and Manteca Zoning Ordinance.

The proposed residential project and the proposed Drain No. 5 off-site improvements are consistent with the land uses envisioned in the General Plan, and no General Plan amendment would be required for the proposed projects to be implemented. The proposed residential project density of 24 units per acre is less than the maximum density required by the General Plan and is consistent with the land use designation. The land uses surrounding the project site are mixed use, including residential and commercial developments, and amenities, services, and job centers which are located nearby the two proposed projects.

Based on the General Plan land use designation of the residential project site, emissions related to development of the proposed residential project would have been included in growth forecasts for the current AQPs as Commercial development. The proposed Drain No. 5 off-site improvements would not have significant operational emissions that would impact the growth forecasts. As such, it follows that the two proposed projects would not result in growth and associated emissions unforeseen in any local or regional plans. Therefore, the proposed residential project impacts and the proposed Drain No. 5 off-site improvements impacts would not be found significant regarding this criterion.

Control Measures

The AQP contains a number of control measures, which are enforceable requirements through the adoption of rules and regulations. For example, AQP Regulation VIII aims to reduce particulate matter less than 10 microns in diameter (PM_{10}) (predominantly dust/dirt) generated from demolition and construction activities. Rule 4601 and Rule 4641 aim to reduce volatile organic compounds (VOC) emissions as a result of project architectural coating activities. Both the proposed residential project and the proposed Drain No. 5 off-site improvements would comply with all applicable Valley Air District rules and regulations. Therefore, the two proposed projects comply with this criterion and would not conflict with or obstruct implementation of the applicable air quality attainment plan for this criterion.

Summary

As addressed above, the proposed residential project and the proposed Drain No. 5 off-site improvements would not adversely affect growth assumptions within the AQP; therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would result in a less than significant impact based on this criterion. Both proposed projects would comply with the applicable AQP control measures; therefore, the potential impact would be less than significant for this criterion. The proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to implementation of applicable AQPs beyond what was previously identified and analyzed in the General Plan FEIR.

b) Air Quality Standard, Criteria Pollutants

Significant and unavoidable. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on criteria pollutant emissions. The General Plan FEIR set forth Goals AQ-1, AQ-2, AQ-3, and AQ-4, Policies AQ-P-2, AQ-P-7, AQ-P-8, and AQ-P-9, and

Implementation Measures AQ-I-4, AQ-I-5, AQ-I-6, AQ-I-7, AQ-I-13, AQ-I-14, and AQ-I-14 to reduce the severity of the impact. However, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

To the extent that the criteria pollutant emissions that result from construction and operation of the proposed residential project or the proposed Drain No. 5 off-site improvements exceed adopted thresholds, this was previously considered by the General Plan FEIR. For example, General Plan FEIR Policy AQ-P-7 requires that new construction shall be managed to minimize fugitive dust and construction vehicle emissions. General Plan FEIR Policy AQ-I-4 requires that construction plans shall include and provide a dust management plan to control fugitive dust. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than those disclosed in the General Plan FEIR.

Regional Emissions

Air pollutant emissions have regional effects and localized effects. This analysis assesses the regional effects of the proposed residential project's criteria pollutant emissions in comparison to Valley Air District thresholds of significance for short-term construction activities and long-term operation of the proposed residential project.

The primary pollutants of concern during project construction and operation are reactive organic gases (ROG), nitrogen oxides (NO_X), PM_{10}, and particulate matter less than 2.5 microns in diameter ($PM_{2.5}$). The Valley Air District's Guidance for Assessing and Mitigating Air Quality Impacts (GAMAQI) adopted in 2015 contains thresholds for carbon monoxide (CO), NO_X, ROG, sulfur oxide (SO_X), PM_{10}, and $PM_{2.5}$.

Ozone is a secondary pollutant that can be formed miles from the source of emissions, through reactions of ROG and NO_X emissions in the presence of sunlight. Therefore, ROG and NO_X are termed ozone precursors. The Air Basin often exceeds the State and national ozone standards. Therefore, if the project emits a substantial quantity of ozone precursors, the project may contribute to an exceedance of the ozone standard. The Air Basin also exceeds air quality standards for PM_{10} and $PM_{2.5}$; therefore, substantial project emissions may contribute to an exceedance for these pollutants. The Valley Air District's annual emission significance thresholds used for the project define the substantial contribution for both operational and construction emissions as follows:

- 100 tons per year CO
- 10 tons per year NO_X
- 10 tons per year ROG
- 27 tons per year SO_X
- 15 tons per year PM_{10}
- 15 tons per year $PM_{2.5}$

The proposed residential project and the proposed Drain No. 5 off-site improvements do not contain sources that would produce substantial quantities of sulfur dioxide (SO_2) emissions during

construction and operation.[19] Furthermore, modeling shows that SO_2 emissions are well below the Valley Air District GAMAQI thresholds, as shown in the modeling results contained in Appendix A. No further analysis of SO_2 is required.

Construction Emissions

Construction emissions associated with the proposed residential project and the proposed Drain No. 5 off-site improvements are shown in Table 1. For the assumptions used in estimating these emissions, please refer to Appendix A. As shown in Table 1, the emissions are below the significance thresholds in each construction year. To provide a conservative analysis, because the two projects would be constructed at the same time, and are located in close proximity to each other, the emissions from both projects are summarized in one table. The emissions are less than significant on a project basis.

Table 1: Unmitigated Annual Construction Air Pollutant Emissions

Year	Emissions (tons per year)[1]					
	ROG	NO_X	CO	SO_X	PM_{10} (Total)	$PM_{2.5}$ (Total)
2023 Construction						
Site Prep (Phase 1)	0.01	0.14	0.09	<0.01	0.05	0.03
Site Prep (Drain No. 5 off-site improvements)	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
Grading (Phase 1)	0.05	0.05	0.42	<0.01	0.08	0.04
Grading (Drain No. 5 off-site improvements)	<0.01	0.01	0.01	<0.01	<0.01	<0.01
Building Construction (Phase 1)	0.28	1.98	2.62	<0.01	0.45	0.17
Off-Site Roadway Improvements	<0.01	0.03	0.03	<0.01	<0.01	<0.01
2023 Construction Subtotal	*0.33*	*2.19*	*3.14*	*<0.01*	*0.58*	*0.24*
2024 Construction						
Building Construction (Phase 1)	0.13	0.97	1.31	<0.01	0.23	0.08
Paving (Phase 1)	0.02	0.10	0.15	<0.01	<0.01	<0.01
Architectural Coating (Phase 1)	0.87	0.01	0.03	<0.01	<0.01	<0.01
Building Construction (Phase 2)	0.11	0.87	1.16	<0.01	0.11	0.05
2024 Construction Subtotal	*1.12*	*1.95*	*2.65*	*<0.01*	*0.34*	*0.13*
2025 Construction						
Building Construction (Phase 2)	0.09	0.74	1.04	<0.01	0.10	0.05
Architectural Coating (Phase 2)	0.59	0.01	0.02	<0.01	<0.01	<0.01

[19] United States Environmental Protection Agency (EPA). Sulfur Dioxide Basics. Website: https://www.epa.gov/so2-pollution/sulfur-dioxide-basics. Accessed June 30, 2022.

Year	Emissions (tons per year)[1]					
	ROG	NO_X	CO	SO_X	PM_{10} (Total)	$PM_{2.5}$ (Total)
2025 Construction Subtotal	*0.68*	*0.75*	*1.06*	*<0.01*	*0.10*	*0.05*
Entire Construction Duration (2023-2025)						
Maximum Annual Construction Emissions	**1.12**	**2.19**	**3.14**	**<0.01**	**0.58**	**0.24**
Significance threshold (tons/year)	10	10	100	27	15	15
Exceed threshold—significant impact?	No	No	No	No	No	No

Notes:
CO = carbon monoxide
NO_x = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxide
[1] PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed May 3, 2022.

Operational Emissions

Operational emissions occur over the lifetime of the proposed residential project and are from two main sources: area sources and motor vehicles, or mobile sources. Construction is scheduled to be completed in a single phase. To provide a conservative estimate, operations for the proposed residential project were modeled assuming complete buildout in 2024. The proposed Drain No. 5 off-site improvements would not have significant operational emissions, as the project consists only of the undergrounding of the existing drainage channel, and no new operational emissions would be generated. The Valley Air District considers construction and operational emissions separately when making significance determinations.

The emissions modeling results for project operation are summarized in Table 2.

Table 2: Operational Air Pollutant Emissions for Proposed Residential Project (2024)

Source	Emissions (tons per year)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	2.39	0.04	3.12	<0.01	0.02	0.02
Energy	0.02	0.18	12.51	<0.01	3.01	0.01
Mobile	1.30	2.09	12.51	0.03	3.01	0.82
Total	**3.72**	**2.30**	**15.71**	**0.03**	**3.04**	**0.85**

Source	Emissions (tons per year)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Significance threshold	10	10	100	27	15	15
Exceed threshold—significant impact?	No	No	No	No	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxide
Area source emissions include emissions from natural gas, landscape, and painting.
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed May 3, 2022.

As shown in Table 2, regional operational emissions from the proposed residential project would not exceed Valley Air District's threshold of significance for any pollutant assessed; related impacts would be less than significant.

Localized Pollutant Analysis

Emissions occurring at or near the project site have the potential to create a localized impact, also referred to as an "air pollutant hotspot." Localized emissions are considered significant if when combined with background emissions, they would result in exceedance of any health-based air quality standard. In locations that already exceed standards for these pollutants, significance is based on a significant impact level that represents the amount that is considered a cumulatively considerable contribution to an existing violation of an air quality standard.

The Valley Air District's GAMAQI includes screening thresholds for identifying projects that need detailed analysis for localized impacts. Projects with on-site emission increases from construction activities or operational activities that exceed the 100 pounds per day screening level of any criteria pollutant after compliance with Rule 9510 and implementation of all enforceable mitigation measures would require preparation of an Ambient Air Quality Analysis (AAQA). The criteria pollutants of concern for localized impact in the Air Basin are PM_{10}, $PM_{2.5}$, nitrogen dioxide (NO_2), and CO. CO violations require heavy traffic volumes and extreme traffic congestion that would not occur at or near the project site; therefore, operational CO emission hotspots are highly unlikely.

An analysis of maximum daily emissions during construction and operation was conducted to determine whether emissions would exceed the 100 pounds per day screening threshold for any pollutant of concern. To provide a conservative analysis, the emissions from both the proposed residential project and the proposed Drain No. 5 off-site improvements were combined and analyzed against the Valley Air District thresholds. The results of the analysis are presented in Table 3 and Table 4.

Table 3: Maximum On-site Daily Air Pollutant Emissions During Construction (Unmitigated)

Source	On-site Emissions (pounds per day)[1,2,3]					
	ROG	NO_X	CO	SO_X	PM_{10} (Total)	$PM_{2.5}$ (Total)
Site Preparation 2023	3.19	33.71	22.16	0.05	10.63	5.95
Grading 2023	4.60	48.48	35.42	0.08	8.53	4.64
Building Construction 2023	1.57	14.38	16.24	0.03	0.70	0.66
Building Construction 2024	2.94	26.88	32.34	0.06	1.22	1.16
Paving 2024	1.74	9.53	14.63	0.02	0.47	0.43
Architectural Coating 2024	86.50	1.22	1.81	0.00	0.06	0.06
Building Construction 2025	1.37	12.47	16.08	0.03	0.53	0.50
Architectural Coating 2025	65.87	1.15	1.81	0.00	0.05	0.05
Maximum Daily Emissions	**86.50**	**48.48**	**35.42**	**0.08**	**10.63**	**5.95**
Screening threshold	100	100	100	100	100	100
Exceed screening threshold?	No	No	No	No	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxide
PM_{10} and $PM_{2.5}$ emissions are from the mitigated output to reflect compliance with Regulation VIII—Fugitive PM_{10} Prohibitions.

1 On-site emissions are specifically restricted to the on-site emissions shown in the CalEEMod output files. For construction, CalEEMod separates the off-road construction equipment and the on-road construction trips. Both the project site and the off-site improvements area include both on-site and off-site emissions. This table shows the on-site emissions from all construction areas included as part of the proposed residential project. Source: CalEEMod Output (Appendix A).

2 Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed May 3, 2022.

As noted in Table 3, the maximum daily construction emissions of NO_X, PM_{10}, and $PM_{2.5}$ would not exceed the applicable screening threshold. Policy AQ-P-7 requires that new construction is managed to minimize fugitive dust and construction vehicle emissions, including through the implementation of Valley Air District rules, such as watering the site twice per day during construction and limiting off-road vehicle speed to 15 miles per hour (mph), which would further reduce air pollutant emissions from dust and NO_X. Operational emissions from the proposed residential project include emissions generated on-site by area sources such as natural gas combustion and landscape maintenance, and on-site travel from motor vehicles accessing the proposed residential project. During the localized pollutant analysis an estimated trip length of 4,870 feet was used to determine the maximum length a vehicle could travel on the residential project site, as shown in the California Emissions Estimator Model (CalEEMod) Notes located in Appendix A. This trip length is the longest

distance a vehicle could travel on the project site and represents the most emissions that could feasibly be generated by on-site mobile vehicles. The daily on-site emissions during residential project operations are shown below in Table 4.

Table 4: Maximum On-site Daily Air Pollutant Emissions During Operations for Proposed Residential Project

Source	On-site Emissions (pounds per day)[1]					
	ROG	NO_x	CO	SO_X	PM_{10}	$PM_{2.5}$
Area	14.07	4.23	36.29	0.03	0.50	0.50
Energy	0.12	1.00	0.42	<0.01	0.08	0.08
Mobile	5.59	3.70	24.96	0.02	1.98	0.55
Total	**19.77**	**8.93**	**61.67**	**0.05**	**2.56**	**1.13**
Screening threshold	100	100	100	100	100	100
Exceed screening threshold?	No	No	No	No	No	No

Notes:
CO = carbon monoxide
NO_X = nitrogen oxides
PM_{10} = particulate matter less than 10 microns in diameter
$PM_{2.5}$ = particulate matter less than 2.5 microns in diameter
ROG = reactive organic gases
SO_X = sulfur oxide
Source of Emissions: CalEEMod Output (Appendix A).
Source of Thresholds: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed May 3, 2022.

Table 4 shows that the proposed residential project would not exceed the Valley Air District's screening thresholds. The Valley Air District GAMAQI and associated guidance for CEQA analysis recommends that an AAQA be conducted if the proposed residential project exceeded an estimated 100 pounds per day (lbs/day) of emissions of any one criteria pollutant to identify which, if any, State or federal air quality standards the proposed residential project may adversely impact. However, because the General Plan FEIR already identified that development consistent with the General Plan could violate air quality standards or contribute substantially to the current nonattainment status of the Air Basin, preparation of an AAQA would not identify any new or more severe impacts than what has already been identified in the Air Quality analysis, nor would it identify mitigation measures that would further reduce these identified impacts.

It should be noted that review of the proposed residential project and the feasibility of other mitigation measures, including off-site mitigation, is being conducted pursuant to District Rule 9510 (Indirect Source Review) as a separate effort, which may serve to reduce the potential impact of the proposed residential project to regional air quality.

Summary

Regional emissions generated by the proposed residential project and the proposed Drain No. 5 off-site improvements project would not exceed any applicable thresholds after compliance with all rules, regulations, and project design features during either construction or operations. Localized construction emissions would be less than significant, and localized operation emissions would be less than significant. In summary, the overall impact would be less than significant with incorporation of the General Plan FEIR mitigation measures. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to criteria pollutants beyond what was previously identified and analyzed in the General Plan FEIR.

c) Sensitive Receptors

Less than significant impact. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on exposure of sensitive receptors to substantial pollutant concentrations. To mitigate potential impacts, the General Plan FEIR set forth Policies AQ-I-8, which would ensure air pollution point sources are appropriately separated from residential areas and sensitive receptors, and AQ-I-15, which would require developers of sensitive air pollution point receptors provide documentation that the project design includes appropriate buffering to separate the use from sources of air pollution odors, to separate industrial development and from residential areas and sensitive receptors to reduce the severity of the impact. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Sensitive Receptors

Those who are sensitive to air pollution include children, the elderly, and persons with preexisting respiratory or cardiovascular illness. The Valley Air District considers a sensitive receptor to be a location that houses or attracts children, the elderly, people with illnesses, or others who are especially sensitive to the effects of air pollutants. Examples of sensitive receptors include hospitals, residences, convalescent facilities, and schools.

Sensitive receptors within 1,500 feet from the proposed residential project site and the proposed Drain No. 5 off-site improvements site include residential homes to the east and southwest. The nearest apartment homes are approximately 25 feet east of the proposed residential site construction footprint, and the nearest single-family residence is located approximately 425 feet southeast of the proposed residential project site. There is a medical office facility adjoining the west boundary of the proposed residential project site. There is an elementary school 1,920 feet north of the proposed Drain No. 5 off-site improvements site, and a high school located approximately 1,500 feet south of the proposed residential project site.

Construction: ROG

ROG is emitted during the application of architectural coatings (painting). The amount emitted is dependent on the amount of ROG (or VOC) in the paint. ROG emissions are typically an indoor air

quality health hazard concern rather than an outdoor air quality health hazard concern. Therefore, exposure to ROG during architectural coatings is a less than significant health impact.

There are three types of asphalt that are typically used in paving: asphalt cements, cutback asphalts, and emulsified asphalts. However, Valley Air District Rule 4641 prohibits the use of the following types of asphalt: rapid cure cutback asphalt; medium cure cutback asphalt; slow cure asphalt that contains more than 0.5 percent of organic compounds that evaporate at 500°F (degrees Fahrenheit) or lower; and emulsified asphalt containing organic compounds, in excess of 3 percent by volume that evaporate at 500°F or lower. An exception to this is medium cure asphalt when the National Weather Service official forecast of the high temperature for the 24-hour period following application is below 50°F.

The acute (short-term) health effects from worker direct exposure to asphalt fumes include irritation of the eyes, nose, and throat. Other effects include respiratory tract symptoms and pulmonary function changes. The studies were based on occupational exposure of fumes. Residents are not in the immediate vicinity of the fumes; therefore, they would not be subjected to concentrations high enough to evoke a negative response. In addition, the restrictions that are placed on asphalt in the San Joaquin Valley reduce ROG emissions from asphalt and exposure. The impact to nearby sensitive receptors from ROG during construction is less than significant.

Operation: ROG

During operation of the proposed residential project, ROG would be emitted primarily from motor vehicles. Direct exposure to ROG from proposed project's motor vehicles would not result in health effects, because the ROG would be distributed across miles and miles of roadway and in the air. The concentrations would not be great enough to result in direct health effects. The proposed Drain No. 5 off-site improvements would not emit significant amounts of ROG during operations.

Construction: NO_X, PM_{10}, and $PM_{2.5}$

As discussed in Impact AIR-2, localized unmitigated concentrations of PM_{10}, and $PM_{2.5}$ generated during project construction would not exceed the ambient air quality standards, while localized concentrations of NO_X would not exceed ambient standards after incorporation of AQ-P-7. Therefore, emissions during construction would not exceed the significance thresholds after incorporation of mitigation and would not be expected to result in concentrations that would exceed ambient standards or contribute substantially to an existing exceedance of an ambient air quality standard.

Operation: NO_X, PM_{10}, and $PM_{2.5}$,

As discussed in Impact AIR-2, localized concentrations of NO_X, PM_{10}, and $PM_{2.5}$ would not exceed the ambient air quality standards. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not expose sensitive receptors to substantial criteria air pollutant concentrations during operation.

Toxic Air Contaminants

Project construction would involve the use of diesel-fueled vehicles and equipment that emit diesel particulate matter (DPM), which is considered a toxic air contaminate (TAC). The Valley Air District's latest threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million). The Valley Air District's 2015 GAMAQI does not currently recommend analysis of TAC emissions from project construction activities, but instead focuses on projects with operational emissions that would expose sensitive receptors over a typical lifetime of 70 years.

Health Risk Assessment

The construction of the proposed residential project and the proposed Drain No. 5 off-site improvements would result in emissions of several TACs that could potentially impact nearby sensitive receptors. Exposures to TACs can result in both short-term (acute) or long-term (chronic) non-cancer health impacts. Such impacts could include illnesses related to reproductive effects, respiratory effects, eye sensitivity, immune effects, kidney effects, blood effects, central nervous system, birth defects, or other adverse environmental effects.

The Valley Air District has defined health risk significance thresholds. These thresholds are represented as a cancer risk to the public and a non-cancer hazard from exposures to TACs. Cancer risk represents the probability (in terms of risk per million individuals) that an individual would contract cancer resulting from exposure to TACs continuously over a period of several years. The Valley Air District's latest threshold of significance for TAC emissions is an increase in cancer risk for the maximally exposed individual of 20 in a million (formerly 10 in a million).

The principal TAC emission analyzed in this assessment was DPM from operation of off-road equipment and diesel-powered delivery and worker vehicles during construction. DPM has been identified by the California Air Resources Board (ARB) as a carcinogenic substance. For purposes of this analysis, DPM is represented as exhaust emissions of PM_{10}. DPM represented as exhaust PM_{10} adequately addresses impacts from PM_{10} and $PM_{2.5}$ emissions, as $PM_{2.5}$ comprises a component of PM_{10}. Fugitive dust components of PM_{10} and $PM_{2.5}$ would be controlled through the use of required dust control practices during project construction.

To provide a conservative health risk analysis, because both the proposed residential project and the proposed off-site improvements would occur at the same time, the emissions for both projects were combined and the potential impacts of both projects were analyzed. Based on the analysis presented in this section, emissions were estimated for the unmitigated scenario and a scenario with clean engines (Tier 4 Final mitigated), consistent with the General Plan FEIR MM AQ-P-7. Equipment tiers refer to a generation of emission standards established by the United States Environmental Protection Agency (EPA) and the ARB that apply to diesel engines in off-road equipment. The "tier" of an engine depends on the model year and horsepower rating; generally, the newer a piece of equipment is, the greater the tier it is likely to have. Excluding engines greater than 750 horsepower, Tier 1 engines were manufactured generally between 1996 and 2003. Since Tier 1 emission standards were established by the EPA in 1994, increasingly more stringent Tier 2, Tier 3, and Tier 4 (interim and

final) standards were adopted by the EPA, as well as the ARB. Construction exhaust emissions of DPM, both unmitigated and Tier 4 Final mitigated, are shown in Table 5.

Table 5:Combined Project Diesel Particulate Matter Construction Emissions

Year	On-site DPM as PM10 Exhaust (tons/year)	Off-site DPM as PM10 Exhaust (tons/year)
Unmitigated	0.1308	0.0082
Tier 4 Final Mitigated	0.0085	0.0082

Notes:
DPM = diesel particulate matter
PM_{10} = particulate matter less than 10 microns in diameter
Source: Appendix A.

Estimation of Cancer Risks

Cancer risks are estimated as the upper-bound incremental probability that an individual could develop cancer as a direct result of exposure to potential carcinogens over a specified exposure duration. The cancer risk attributed to a chemical is calculated by multiplying the chemical intake or dose at the human exchange boundaries (e.g., lungs) by the chemical-specific cancer potency factor (CPF). A risk level of 20 in a million implies a likelihood (or risk) that up to 20 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of TACs over a specified duration of time. This risk would be an excess cancer risk that is in addition to any environmental cancer risk borne by a person not exposed to these air toxics.

The California Office of Environmental Health Hazard Assessment (OEHHA) has developed guidance for estimating cancer risks that considers the increased sensitivity of infants and adults to TAC emissions, different breathing rates, and time spent at home. This guidance was applied in estimating cancer risks from the construction and operation of the proposed residential project.

The recommend method for the estimation of cancer risk is shown in the equations.

$$\text{Cancer Risk} = C_{DPM} \times \text{Inhalation Exposure Factor} \quad \text{(EQ-1)}$$

Inhalation is the most important exposure pathway to impact human health from DPM and the inhalation exposure factor is defined as follows:

$$\text{Inhalation Exposure Factor} = CPF \times EF \times ED \times DBR \times AAF/AT \quad \text{(EQ-2)}$$

Where:

CPF = Inhalation cancer potency factor for the TAC: 1.1 $(mg/kg\text{-}day)^{-1}$ for DPM

EF = Exposure frequency (days/year)

ED = Exposure duration (years of construction)

AAF = set of age-specific adjustment factors that include age sensitivity factors (ASF), daily breathing rates (DBR), and time at home factors (TAH)

AT = Averaging time over which exposure is averaged (days)

Cancer Risk = Total individual excess cancer risk defined as the cancer risk a hypothetical individual faces if exposed to carcinogenic emissions from a particular source for specified exposure durations; this risk is defined as an excess risk because it is above and beyond the background cancer risk to the population; cancer risk is expressed in terms of risk per million exposed individuals.

C_{DPM} = Period average DPM air concentration calculated from the air dispersion model in micrograms per cubic meter ($\mu g/m^3$)

The recommended values for the various cancer risk parameters, shown in EQ-2, above, are provided in Table 6 for the off-site sensitive receptor scenario (Scenario 1). All factors other than exposure duration remained constant in the other scenario. For each scenario, the exposure duration was adjusted to match the duration of the construction period being analyzed. For detailed parameter for each scenario analyzed, please see Appendix A.

Table 6: Exposure Assumptions for Cancer Risk for Scenario 1

Receptor Type	Exposure Frequency		Exposure Duration (years)	Age Sensitivity Factors (ASF)	Time at Home Factor (TAH) (%)	Daily Breathing Rate (DBR) (1) (L/kg-day)
	Hours/day	Days/year				
Sensitive/Residential—Infant						
Third Trimester	24	350	0.25	10	85	361
0 to < 2 years	24	350	2	10	85	1,090
2 to < 6 years	24	350	0.25	3	72	861
Sensitive Receptor—Child						
> 2 to 9 years	24	350	2.3	3	72	861
Sensitive Receptor—Adult						
> 16 years	24	350	2.3	1	73	290

Notes:
L/kg-day = liters per kilogram body weight per day
(1) The DBR utilized for sensitive/residential receptors assume the 95th percentile breathing rates for all individuals.
Sources: Appendix A.
Office of Environmental Health Hazard Assessment (OEHHA). 2015. Air Toxics Hot Spots Project Risk Assessment Guidelines: The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments. Website: https://oehha.ca.gov/media/downloads/crnr/2015guidancemanual.pdf. Accessed May 22, 2022.

Estimation of Chronic Non-Cancer Hazards

An evaluation of potential non-cancer effects of chronic chemical exposures was also conducted. Adverse health effects are evaluated by comparing the annual receptor concentration of each chemical compound with the appropriate Reference Exposure Level (REL). Available RELs promulgated by OEHHA were considered in the assessment.

Risk characterization for non-cancer health hazards from TACs is expressed as a hazard index (HI). The HI is a ratio of the predicted concentration of the project's emissions to a concentration considered acceptable to public health professionals, termed the REL.

To quantify non-carcinogenic impacts, the HI approach was used.

$$HI = C_{ann}/REL \quad \text{(EQ-3)}$$

Where:

HI = chronic hazard index

C_{ann} = annual average concentration of TAC as derived from the air dispersion model ($\mu g/m^3$)

REL = reference exposure level above which a significant impact is assumed to occur ($\mu g/m^3$)

The HI assumes that chronic exposures to TACs adversely affect a specific organ or organ system (toxicological endpoint) of the body. For each discrete chemical exposure, target organs presented in regulatory guidance were used. To calculate the HI, each chemical concentration or dose is divided by the appropriate toxicity REL. For compounds affecting the same toxicological endpoint, this ratio is summed. Where the total equals or exceeds 1, a health hazard is presumed to exist. The OEHHA has defined a REL for DPM of 5 $\mu g/m^3$. The principal toxicological endpoint assumed in this assessment was through inhalation.

Toxic Air Contaminant Construction Analysis

Major sources of DPM during construction include off-road construction equipment and heavy-duty delivery truck activities. The results of the Health Risk Assessment (HRA) prepared for project construction for cancer risk and long-term chronic cancer risk are summarized below. Air dispersion modeling was utilized to assess the proposed residential project's potential health risks using American Meteorological Society/EPA Regulatory Model (AERMOD) Version 21112, which is an air dispersion model accepted by the EPA and the Valley Air District for preparing HRAs. Exhaust emissions of DPM (as PM_{10} exhaust) were estimated using CalEEMod Version 2020.4.0. Construction emissions were estimated assuming adherence to all applicable rules, regulations, General Plan FEIR mitigation measures, and project design features. The construction emissions were assumed to be distributed over the project area with a working schedule of 8 hours per day and 5 days per week. Emissions were adjusted by a factor of 3 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period, during weekdays only. Detailed parameters, a description of methodology, and complete calculations are contained in Appendix A.

Table 7 shows the Maximally Impacted Sensitive Receptor (MIR) for each scenario analyzed.

Table 7: Maximally Impacted Sensitive Receptor in Each Scenario Analyzed

Phase	MIR	Distance from Closest On-site Construction
Scenario 1: Full buildout of both the proposed residential project and the Off-site Drain No. 5 Improvements, assessing off-site sensitive receptors only.	An existing residence located approximately 100 feet east of the eastern border of the residential project site.	100 feet
Scenario 2: Phase 1 and site-wide site prep, grading, and paving completed, with Phase 2 under construction.	A future project residence located in Phase 1 of the residential project site.	450 feet

Table 8 presents a summary of the project's construction cancer risk, chronic non-cancer hazard impacts at the MIR prior to the application of any equipment mitigation for each scenario analyzed. The General Plan FEIR MM AQ-P-7 states that new construction shall be managed to minimize fugitive dust and construction vehicle emissions. Consistent with the General Plan FEIR MMs, best practices for the reduction of fugitive dust, as well as emission reductions expected from compliance with Valley Air District regulations were incorporated as part of the modeling for the unmitigated scenario.

Table 8: Estimated Health Risks and Hazards During Project Construction (Unmitigated)

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]
Risks to Off-site Receptors During Project Construction		
Risks and Hazards at the MIR: Infant	53.16	0.04
Risks and Hazards at the MIR: Child	13.06	0.04
Risks and Hazards at the MIR: Adult	1.07	0.04
Risks to On-site Receptors During Phase 2 Building Construction		
Risks and Hazards at the MIR: Infant	10.62	0.02
Risks and Hazards at the MIR: Child	2.61	0.02
Risks and Hazards at the MIR: Adult	0.28	0.02
Highest From Any Scenario		
Maximum Risks and Hazards	53.16	0.04
Significance Threshold	**20**	**1**
Exceeds Individual Source Threshold?	Yes	No

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]
Notes: µg/m^3 = micrograms per cubic meter DPM = diesel particulate matter HI = hazard index MIR = Maximally Impacted Sensitive Receptor PM_{10} = particulate matter less than 10 microns in diameter REL = Reference Exposure Level [1] Chronic non-cancer HI was estimated by dividing the maximum annual DPM concentration (as PM_{10} exhaust) by the REL of 5 µg/m^3. Source: Health Risk Assessment (Appendix A).		

As shown above, the proposed residential project's construction DPM emissions would not exceed the chronic non-cancer HI threshold of significance at the MIR in any scenario; however, the project's construction DPM emissions would exceed the Valley Air District cancer risk threshold of significance. Therefore, mitigation would be necessary to reduce potentially significant impacts from construction of the proposed residential project. Consistent with General Plan FEIR MM AQ-P-7, and due to the proximity of sensitive receptors to the project site, the utilization of equipment meeting Tier 4 Final standards is recommended to reduce impacts to sensitive receptors during the construction of the two projects. This mitigation is specified for the proposed residential project as MM AIR-3.

Table 9 presents a summary of the potential construction cancer risk and chronic non-cancer hazard impacts at the MIR after implementation of MM AIR-3.

Table 9: Estimated Health Risks and Hazards During Construction (Mitigated)

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]
Risks to Off-site Receptors During Project Construction		
Risks and Hazards at the MIR: Infant	3.76	<0.01
Risks and Hazards at the MIR: Child	0.91	<0.01
Risks and Hazards at the MIR: Adult	0.07	<0.01
Risks to On-site Receptors During Phase 2 Building Construction		
Risks and Hazards at the MIR: Infant	0.55	<0.01
Risks and Hazards at the MIR: Child	0.14	<0.01
Risks and Hazards at the MIR: Adult	0.02	<0.01
Highest From Any Scenario		
Maximum Risks and Hazards	3.76	<0.01
Significance Threshold	**20**	**1**
Exceeds Individual Source Threshold?	No	No

Source	Cancer Risk (risk per million)	Chronic Non-Cancer HI[1]
Notes: $\mu g/m^3$ = micrograms per cubic meter DPM = diesel particulate matter HI = hazard index MIR = Maximally Impacted Sensitive Receptor PM_{10} = particulate matter less than 10 microns in diameter REL = Reference Exposure Level [1] Chronic non-cancer HI was estimated by dividing the maximum annual DPM concentration (as PM_{10} exhaust) by the REL of 5 $\mu g/m^3$. Source: Health Risk Assessment (Appendix A).		

As noted in Table 9, the proposed residential project's construction DPM emissions would not exceed the cancer risk significance threshold or non-cancer HI significance threshold at the MIR after the incorporation of MM AIR-3. Therefore, construction of the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in a significant impact on nearby sensitive receptors from TACs.

Summary

As described above, the proposed residential project and the proposed Drain No. 5 off-site improvements would not expose sensitive receptors to substantial pollutant concentrations during either construction or operations after the incorporation of General Plan FEIR mitigation measures and MM AIR-3. Therefore, the two proposed projects would not result in any peculiar effects and would not result in new or more severe impacts related to exposure of sensitive receptors to substantial pollutant concentrations than previously analyzed in the General Plan FEIR. The conclusions from the General Plan FEIR remain unchanged.

d) Odors

Less than significant impact. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact in terms of objectionable odors. To mitigate potential impacts, the General Plan FEIR set forth Goal AQ-1, which seeks to minimizing public exposure to pollutants that create a public nuisance, such as unpleasant odors, and Policy AQ-P-3, which would provide buffers between land uses that typically generate hazardous or obnoxious fumes and residential or other sensitive land uses, to reduce the severity of the impact. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor, and the second occurs when a new sensitive receptor locates near an existing source of odor.

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas.

The Valley Air District has determined the common land use types that are known to produce odors in the Air Basin. These types are shown in Table 10.

Table 10: Screening Levels for Potential Odor Sources

Odor Generator	Screening Distance
Wastewater Treatment Facilities	2 miles
Sanitary Landfill	1 mile
Transfer Station	1 mile
Composting Facility	1 mile
Petroleum Refinery	2 miles
Asphalt Batch Plant	1 mile
Chemical Manufacturing	1 mile
Fiberglass Manufacturing	1 mile
Painting/Coating Operations (e.g., auto body shop)	1 mile
Food Processing Facility	1 mile
Feed Lot/Dairy	1 mile
Rendering Plant	1 mile
Source: San Joaquin Valley Air Pollution Control District (Valley Air District). 2015. Guidance for Assessing and Mitigating Air Quality Impacts. Website: https://www.valleyair.org/transportation/GAMAQI-2015/FINAL-DRAFT-GAMAQI.PDF. Accessed June 30, 2022.	

According to the GAMAQI, analysis of potential odor impacts should be conducted for the following two situations:

- **Odor Generators:** projects that would potentially generate odorous emissions proposed to locate near existing sensitive receptors or other land uses where people may congregate.
- **Odor Receptors:** residential or other sensitive receptor projects or other projects built for the intent of attracting people locating near existing odor sources.

If a project were to result in sensitive receptors being located closer than the recommended distances to an odor generator in the list in Table 10, a more detailed analysis including a review of Valley Air District odor complaint records is recommended. For a project located near an existing source of odors, the project should be identified as having a significant odor impact if it is proposed for a site that is closer to an existing odor source than any location where there have been:

- More than one *confirmed* complaint per year averaged over a 3-year period, or
- Three *unconfirmed* complaints per year averaged over a 3-year period.

Project as an Odor Generator

Construction

During construction, the various diesel-powered vehicles and equipment in use on-site would create localized odors that could travel off-site due to wind and atmospheric conditions. These odors would be intermittent and would not likely be noticeable for extended periods of time beyond the boundaries of the two project sites. In addition, the construction equipment would operate sporadically throughout the project sites and any odors would be spread over the site and not concentrated at one particular point. As a result, the potential for construction odor impacts would be less than significant.

Operation

Land uses that are typically identified as sources of objectionable odors include landfills, transfer stations, sewage treatment plants, wastewater pump stations, composting facilities, feed lots, coffee roasters, asphalt batch plants, and rendering plants. The proposed projects would not engage in any of these activities. Specifically, the proposed residential project would be entirely multi-family dwelling development. Therefore, the proposed residential project would lead to odors from associated residential washer and dryer operation, vehicle exhaust, outdoor cooking, and waste disposal. However, such odors generated by project operation would be small in quantity and duration and would not pose an objectionable odor impact to future and existing receptors. The proposed Drain No. 5 off-site improvements consists of an underground drainage channel, which is not a typical source of objectionable odors.

Project as an Odor Receptor

The proposed residential project would include multi-family residential development, which is considered an odor receptor. The proposed Drain No. 5 off-site improvements would not include odor receptors. Based on Google Maps and Table 10, one wastewater treatment plant, one waste collection facility, one metal sheet manufacturer, and two auto body shops were identified in the vicinity of the proposed residential project site, and public record requests for odor complaints were submitted to the Valley Air District. Public records retrieved show that no odor complaints were filed for any of the locations during the period from 2019 to 2022, at the time at which this analysis was prepared.

Therefore, the proposed projects would not result in any peculiar effects and would not result in new or more severe impacts related to odors during project construction or operation than what was previously analyzed in the General Plan FEIR.

Summary

As addressed above, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to odors during project construction than what was previously analyzed in the General Plan FEIR. The conclusions from the General Plan FEIR remain unchanged.

General Plan FEIR Mitigation Measures

MM AQ-P-7 New construction will be managed to minimize fugitive dust and construction vehicle emissions.

MM AQ-I-2 In accordance with CEQA, submit development proposals to the SJVAPCD [Valley Air District] for review and comment prior to decision.

MM AQ-I-8 Implementation Measure AQ-I-8 requires that the applicant provide documentation that the use is located and appropriately separated from residential areas and sensitive receptors prior to entitlement of a project that may be an air pollution point source.

MM AQ-I-15 Implementation Measure AQ-I-15 requires that, as part of the design review criteria, the developer of a sensitive air pollution point receptor shall submit documentation that the project design includes appropriate buffering (e.g., distance, setbacks, landscaping) to separate the use from highways, arterial streets, hazardous material locations and other sources of air pollution or odor.

MM AQ-I-4 Construction activity plans shall include and/or provide for a dust management plan to prevent fugitive dust from leaving the property boundaries and causing a public nuisance or a violation of an ambient air standard. Project development applicants shall be responsible for ensuring that all adequate dust control measures are implemented in a timely manner during all phases of project development and construction.

Additional Mitigation Measures

MM AIR-3 During construction activities, all off-road equipment with engines greater than 50 horsepower shall meet either United States Environmental Protection Agency (EPA) or the California Air Resources Control Board (ARB) Tier 4 Final off-road emission standards. The construction contractor shall maintain records concerning its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information may include but are not limited to equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.4 Biological Resources *Would the project:*					
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 United States Fish and Wildlife Service?	Less than significant impact with mitigation incorporated	No	No	No	No
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 United States Fish and Wildlife Service?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	Less than significant impact with mitigation incorporated	Yes	No	No	No
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of wildlife nursery sites?	Less than significant impact with mitigation incorporated	No	No	No	No
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	N/A	No	No	No	No
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State Habitat Conservation Plan?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Special-status Species

Would the project: *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 United States Fish and Wildlife Service?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on several special-status plants including Delta button-celery (*Eryngium racemosum*) and Wright's trichocoronis (*Trichocoronis wrightii* var. *wrightii*) as well as several special-status wildlife species including Swainson's hawk (*Buteo swainsoni*), California tiger salamander (*Ambystoma californiense*), tricolored blackbird (*Agelaius tricolor*), and burrowing owl (*Athene cunicularia*). The General Plan FEIR set forth MM B-1.1 in order to reduce the severity of potential impacts to special-status species by requiring compliance with the requirements of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP), including associated site surveys and local, State, and federal permitting, where needed. The General Plan FEIR concluded that impacts to special-status species would be reduced to less than significant after implementation of the policies and implementation measures.

Olberding Environmental, Inc. prepared a Biological Resources Analysis (BRA) Report for the proposed residential project in November of 2021 (2021 BRA)[20]. An additional BRA for the proposed Drain No. 5 off-site improvements was prepared in June of 2022 (2022 BRA)[21] (see Appendix B for both reports). The residential project site consists largely of ruderal/disturbed annual grassland. The Drain No. 5 off-site improvements project site consists almost entirely of ruderal/unvegetated (0.77 acre) habitat and a drainage canal (0.12 acre/653 linear feet). During the October 2021 BRA survey, most of the project site was unvegetated due to disking. However, some vegetation was present and included crabgrass (*Digitaria sanguinalis*), ripgut brome (*Bromus diandrus*), black mustard (*Brassica nigra*), with small amounts of other grasses and other herbaceous species. The June 2022 BRA survey describes the Drain No. 5 off-site improvements site as sparsely vegetated with ruderal species such as prickly Russian thistle (*Salsola tragus*), Chinese thornapple (*Datura ferox*), Jersey cudweed (*Pseudognaphalium luteoalbum*), and puncture vine (*Tribulus terrestris*). The drainage canal was almost completely dry, with only a couple inches of stagnant water in the very east end of the canal. FirstCarbon Solutions (FCS) Biologists visited the residential site and the Drain No. 5 off-site improvements project site on January 21, 2022, and June 21, 2022, respectively, to confirm the findings of the BRAs.

The 2021 BRA determined that due to the presence of sandy soils throughout the residential project site, the potential wetland area located within the stormwater detention basin, located in the western portion of the residential project site, may provide habitat for special-status plants, including heartscale (*Atriplex cordulata* var. *cordulata*) and lesser saltscale (*Atriplex minuscula*). The

[20] Olberding Environmental, Inc. 2021. Biological Resources Analysis Report for the Prose Manteca Property, San Juaquin County, California. November.

[21] Olberding Environmental, Inc. 2022. Biological Resources Analysis Report for the Prose Manteca Property, San Juaquin County, California. June.

results of the species review are tabulated in Attachment 2, Table 1 of the 2021 BRA. Therefore, the 2021 BRA recommends that prior to any proposed project ground disturbance, botanical surveys should be conducted for heartscale and lesser saltscale during the blooming period (May–October) for these species. The 2022 BRA for the Drain No. 5 off-site improvements site determined that due to the heavily modified nature of the project site extending back decades, there is no potential habitat for special-status plant species. The results of the species review are tabulated in Attachment 2, Table 1 of the 2022 BRA.

The 2021 BRA determined that the residential project site does not have potential to support any special-status invertebrates, fish, amphibians, or reptiles due to the lack of suitable vernal pool or perennial water features on-site as well as the lack of adequate vegetation cover. The 2021 BRA also determined that the residential project site lacks suitable roosting habitat for special-status bats due to the lack of large trees and structures on-site. However, bats species such as pallid bat (*Antrozous pallidus*), may forage on-site. The 2022 BRA determined that the Drain No. 5 off-site improvements site does not have the potential to support any special-status invertebrates, fish, amphibians, or reptiles due to a lack of any suitable aquatic habitat (e.g., vernal pools, deep permanent water features, low gradient waterways). Additionally, the Drain No. 5 off-site improvements site lacks suitable roosting habitat for special-status bat species due to the lack of trees or other large structures on-site. However, bats species such as pallid bat, may forage on-site.

The 2021 BRA concluded due to the lack of small mammal burrows, and the lack of any large trees or nesting habitat, there is no potential for any special-status birds to nest on the residential project site. While there is the potential for some birds, such as loggerhead shrike (*Lanius ludovicianus*) and white-tailed kite (*Elanus leucurus*) to utilize the residential project site for foraging, there is no available nesting habitat for these species on-site or in the surrounding of the residential project site. However, the residential project site may support other bird species protected under the Migratory Bird Treaty Act (MBTA) that nest on the ground. The results of the species review are tabulated in Attachment 2, Table 2 of the 2021 BRA. Therefore, the 2021 BRA recommends that nesting bird surveys be conducted prior to the commencement of the tree removal or site grading activities if construction-related activities would take place during the nesting season (February through August). The 2022 BRA concluded that due to the lack of small mammal burrows, and the lack of any large trees or nesting habitat, there is no potential for any special-status birds to nest on the Drain No. 5 off-site improvements site. There is the potential for some birds, such as white-tailed kite to utilize the project site for foraging; however, there is no available nesting habitat for this species on-site or in the surrounding area of the Drain No. 5 off-site improvements site. However, the Drain No. 5 off-site improvements site may support other bird species protected under the MBTA that nest on the ground. The results of the species review are tabulated in Attachment 2, Table 2 of the 2022 BRA. Therefore, the 2022 BRA recommends that nesting bird surveys be conducted prior to the commencement of the tree removal or site grading activities if construction-related activities would take place during the nesting season (February through August).

The implementation of General Plan FEIR MM B-1.1 would reduce impacts to special-status species to less than significant levels by requiring the proposed residential project and the Drain No. 5 off-site improvements to comply with the requirements of the SJMSCP or satisfy the applicable federal

Endangered Species Act, California Endangered Species Act (CESA), National Environmental Policy Act (NEPA), CEQA, and other applicable local, State, and federal laws and regulation provisions through consultations with the USACE, the Central Valley RWQCB, and the CDFW as well as local planning agencies.

Implementation of MM B-1.1 would require compliance with the California Fish and Game Code Section 15380(d) which requires that impacts to special-status plants satisfy the minimum biological criteria for listing (Lists 1A, 1B or 2) be considered under significant under CEQA Guidelines.[22] Impacts to special-status plants on the residential project site can be avoided by conducting special-status plant surveys prior to construction as recommended by the 2021 BRA. Implementation of MM B-1.1 would require compliance with Sections 3503, 3503.5, and 3800 of California Fish and Game Code and the MBTA, including avoidance of disturbance of protected active bird nests, including ground nesting birds. This can be accomplished by conducting nesting bird surveys on both project sites prior to construction and implementing avoidance buffers if active nests or found on-site as recommended by the 2021 and 2022 BRAs. Therefore, the proposed residential project and the proposed Drain No.5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Riparian Habitat and Sensitive Natural Communities

Would the project: *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 United States Fish and Wildlife Service?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on sensitive natural communities through the loss of seasonal wetland and riparian vegetation communities within the Plan Area. The General Plan FEIR set forth MM B-2.1 to reduce the severity of the impact by protecting sensitive native vegetation and wildlife communities and habitat in the City. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The vegetation present on the both the residential project site and the Drain No. 5 off-site improvements site consists almost entirely of non-native grasses and ruderal plants.

An artificial stormwater detention basin is located in the western portion of the residential project site. A culvert empties into the south end of this basin, where potential wetlands that may be considered jurisdictional by the Central Valley RWQCB are present. Wetland plant communities are typically considered sensitive natural communities by the CDFW. A 0.12 acre (653 linear foot) drainage canal runs the length of the Drain No. 5 off-site improvements site. Water enters the canal through a culvert at the very east end of the Drain No. 5 off-site improvements site and the canal

[22] List 1A (Plants Presumed Extinct in California), List 1B (Plants Rare, Threatened, or Endangered in California and elsewhere), or List 2 (Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere) of the CNPS *Inventory of Rare and Endangered Vascular Plants of California* as qualifying for legal protection under Section 15380(d). Species on the California Native Plant Society (CNPS) Lists 3 or 4 may, but generally do not, qualify for protection under this provision.

continues off-site to the west. During the June 2022 survey conducted for the preparation of the 2022 BRA, most of the canal is unvegetated, with sparse amounts of ruderal vegetation present. Drain No. 5 is a man-made canal that was constructed in upland habitat approximately 70 years ago for the purpose of stormwater drainage from the surrounding landscape. This drainage canal is not applicable to this resource category and is discussed further in Impact 4.4(c) below.

During the October 2021 survey conducted for preparation of the 2021 BRA, there was only evidence of ponding water and hydrophytic vegetation at the very south end of the basin near the culvert, despite the survey being conducted following a large storm event. Additionally, historic aerial imagery on Google Earth shows no evidence of the detention basin filling since its construction approximately 20 years ago. The area is fenced off with an 8-foot-tall chain-link fence, so a more detailed assessment of the vegetation, soils, and hydrology was not possible at the time of the October 2021 survey or the FCS January 21, 2022, site visit.

Based on the proposed residential project design plans the detention basin would remain and would not be impacted by the development of the proposed residential project. Therefore, the proposed residential project and the Drain No. 5 off-site improvements project would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) State or Federally Protected Wetlands

Would the project: *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?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on federally protected wetlands. The General Plan FEIR set forth MM B-3.1 to reduce the severity of the impact by requiring project proponents to acquire a Section 404 permit by requiring compliance with all requirements for protecting federally protected wetlands. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation. The General Plan FEIR did not analyze potential impacts to waters of the State.

The USACE issued an approved jurisdictional determination for the residential project site (then referred to as the Alma Place Development Project site) on June 17, 2020.[23] The USACE concluded that the approximately 675 foot long (0.172 acre) drainage channel located adjacent to the residential project site, but within the boundaries of the Drain No. 5 off-site improvements site), is a "water of the United States" owing to its status as a tributary of the San Joaquin River, which is considered a "traditionally navigable water" by the USACE. Therefore, this feature is regulated under Sections 404 and 401 of the CWA.

The USACE also concluded that a remnant irrigation ditch and retention basin located on-site along the western residential project boundary are not jurisdictional as a water of the United States and

[23] United States Army Corps of Engineers (USACE). 2020. Letter regarding request for an approved jurisdictional determination for the Alma Place Development Project site. June 17.

therefore not regulated by the USACE; i.e., they do not constitute a federally protected wetland. However, these features may be considered a jurisdictional water of the State and therefore be regulated by the RWQCB under the Porter Cologne Water Quality Control Act.

As discussed above, the drainage channel located within the Drain No. 5 off-site improvements site, was determined to be a federally jurisdictional feature[24] and therefore regulated under Sections 404 and 401 of the CWA. The development of the Drain No. 5 off-site improvements site would fill this federally jurisdictional feature, resulting in a significant impact.

The development of the proposed residential project would not impact the jurisdictional feature bordering the northern boundary of the residential project site. As discussed in Impact 4.4(b) in this section, the proposed residential project would impact the non-federally jurisdictional irrigation ditch on-site. Therefore, the residential project applicant would need to seek determination from the RWQCB whether this on-site irrigation ditch would be regulated as a water of the State. If exempt from State regulation, any impacts to this feature by the proposed residential project would not be considered significant.

Because the General Plan FEIR did not analyze potential impacts to waters of the State, additional analysis is required to determine whether new or more severe impacts than what was disclosed in the General Plan FEIR, would occur as a result of the development of the proposed residential project and the proposed Drain No. 5 off-site improvements. Implementation of MM B-3.1, which requires a determination by the local regulatory agency, procurement of applicable permits (e.g., CWA Sections 404 and 401), and implementation of compensatory mitigation, if determined necessary, would reduce potential impacts to less than significant levels.

d) Fish or Wildlife Movement

Would the project: *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 wildlife nursery sites?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on fish and wildlife movement. The General Plan FEIR set forth MM B-4.1 to reduce the severity of the impact, by requiring compliance with the SJMSCP or satisfying other applicable State and federal regulations. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Generally, the residential site and the Drain No. 5 off-site improvements site are surrounded by urban development to the north, south, east, and southwest. More specifically, undeveloped land can be found bordering the northwest corner of the residential project site and to the west and to the south of the Drain No.5 off-site improvements site. Significant man-made barriers including highways and residential and commercial development present within the vicinity of the both project sites, which likely inhibit the movement of wildlife to and from the project site. Additionally,

[24] United States Army Corps of Engineers (USACE). 2020. Letter regarding request for an approved jurisdictional determination for the Alma Place Development Project site. June 17.

the proposed residential project site does not contain any natural features such as waterways that may serve as potential wildlife movement corridors. While the Drain No. 5 off-site improvements site contains a drainage channel, the project site does not contain natural biological features (e.g., riparian corridor, shorelines, etc.) that would facilitate the movement of wildlife. However, both project sites may provide suitable habitat for ground nesting birds, therefore potential for impacts to occur is present. Implementation of MM B-1.1 (as discussed in Impact 4.4(a) above) would require compliance with Sections 3503, 3503.5, and 3800 of California Fish and Game Code and the MBTA, including avoidance of disturbance of protected active bird nests, including ground nesting birds. This can be accomplished through nesting bird surveys on both project sites prior to construction and implementing avoidance buffers if active nests or found on-site as recommended by the 2021 and 2022 BRAs. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

e) Conflict with Local Policies or Ordinances

Would the project: *Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?*

The General Plan FEIR did not address conflicts with local policies or ordinances (e.g., a tree ordinance).

Several small cottonwoods trees and a coast live oak sapling were observed along the non-federally jurisdictional irrigation ditch located on the residential project site. The Drain No.5 off-site improvements site does not contain trees. The Manteca Municipal Code does not contain any applicable ordinance regulating the removal of the trees located on the residential project site, as they are not considered "street trees."[9] Therefore, the proposed residential project and the proposed Drain No.5 off-site improvements would not conflict with local policies or ordinance and would have no impact.

f) Habitat Conservation Plan/Natural Community Conservation Plan

Would the project: *Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State Habitat Conservation Plan?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact as a result of conflicts with the SJMSCP. The General Plan FEIR set forth MM B-1.1 to reduce the severity of the impact. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The development of the residential and the Drain No.5 off-site improvements sites would be required to the comply with the requirements of the SJMSCP per MM B-1.1. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or

more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure B-1.1

B-1.1 The Resource Conservation Element of the General Plan provides the following policies and implementation measures to avoid impacts to special-status species.

Policy RC-I-32 of the General Plan requires continued support and compliance with the requirements of the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) when reviewing proposed public and private land use changes.

Policy RC-I-33 of the General Plan states that project proponents who opt not to participate in the SJMSCP shall:

- Satisfy applicable federal Endangered Species Act, California Endangered Species Act (CESA), National Environmental Policy Act (NEPA), California Environmental Quality Act (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 on-site, 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.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.5 Cultural and Tribal Cultural Resources *Would the project:*					
a) Cause a substantial adverse change in the significance of a historical resource as pursuant to Section 15064.5?	Less than significant impact with mitigation	No	No	No	No
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	Less than significant impact with mitigation	No	No	No	No
c) Disturb any human remains, including those interred outside of formal cemeteries?	Less than significant impact with mitigation	No	No	No	No
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:					
d) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code Section 5020.1(k), or	Less than significant impact with mitigation	No	No	No	No
e) 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 Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.	Less than significant impact with mitigation	No	No	No	No

Cultural and Tribal Cultural Resources Setting

This section describes the existing cultural resources setting and potential effects from implementation of the proposed residential project and the proposed Drain No. 5 off-site improvements and their surrounding area. Descriptions and analysis in this section are based, in part, on information provided by the Native American Heritage Commission (NAHC), California, the

Central California Information Center (CCIC), National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), California Historic Landmarks list, California Points of Historical Interest list, and the California Built Environment Resource Directory (BERD) for the City of Manteca. Non-confidential records search results, pedestrian survey photos, correspondence with the NAHC and Tribal representatives are included in Appendix C.

Central California Information Center Records Search

A record search and literature review for the proposed residential project and a 0.5-mile radius was conducted on February 16, 2022, at the CCIC, located at California State University in Stanislaus, California. The purpose of this review was to access existing cultural resource survey reports, archaeological site records, historic aerial photographs, and historic maps and evaluate whether any previously documented prehistoric or historic archaeological sites, architectural resources, cultural landscapes, or other resources exist within or near the proposed residential project.

The record search for the proposed residential project included a 0.5-mile search radius beyond the proposed residential project. The proposed Drain No. 5 off-site improvements are adjacent to the northern boundary of the proposed residential project and are encompassed within the 0.5-mile search radius of the proposed residential project. As a result, a new record search was not conducted for the proposed Drain No. 5 off-site improvements.

The results of the records search indicate there are no recorded resources in the proposed residential project and the proposed Drain No. 5 off-site improvements. There are 12 resources within the 0.5-mile search radius of the proposed residential project and the proposed Drain No. 5 off-site improvements, all of which are historic-era resources. In addition, three area-specific survey reports are on file with the CCIC for both project sites and an additional nine reports for the 0.5-mile search radius of both project sites, suggesting that portions of both project sites have been previously surveyed for cultural resources. A records search map identifying both project sites and a 0.5-mile search radius along with relevant non-confidential records search results can be found in Appendix C.

Pedestrian Survey

On March 8, 2022, FCS Historian and Archaeologist, Ti Ngo, MA, conducted a pedestrian survey for unrecorded cultural resources at the residential project site. The survey covered the residential project site in its entirety, beginning in the southwest corner of the residential project site and moving east, using north–south transects spaced at standard 15-meter intervals whenever possible. The residential project site is undeveloped and consists of previously plowed agricultural farmland. Because of the high level of vegetation growth visibility of native soils was poor, ranging between 1 to 5 percent. Observed soils were largely composed of medium brown (Munsell 7YR 3/4) sandy soil with moderate clay content, interspersed with small stones primarily composed of granite (2 to 3 centimeter) and quartz (1 to 2 centimeter). There was also imported fill running across the southern boundary of the residential project site from nearby construction to the south of the proposed residential project boundary.

Survey conditions were documented using digital photographs and field notes. During the survey, Mr. Ngo examined all areas of the exposed ground surface for prehistoric artifacts (e.g., fire-affected

rock, milling tools, flaked stone tools, tool-making debris, ceramics), soil discoloration and depressions that might indicate the presence of a cultural midden, faunal and human osteological remains, and features indicative of the former presence of structures or buildings (e.g., postholes, standing exterior walls, foundations) or historic debris (e.g., glass, metal, ceramics). All areas of the residential project site were closely inspected for culturally modified soils or other indicators of potential historic or prehistoric resources. No prehistoric cultural resources or raw materials commonly used in the manufacture of tools (e.g., obsidian, Franciscan chert) were observed.

During the course of the survey, Mr. Ngo encountered four wells in the northern portion of the residential project site running east to west spaced at approximately 20-meter intervals. An analysis of the wells from historical aerials indicate that the wells were built as part of the agricultural farm that is no longer on-site. The wells are less than 45 years old in age and do not appear to qualify for the CRHR or NRHP.

On June 15, 2022, Mr. Ngo conducted a pedestrian survey of the residential project site and the Drain No. 5 off-site improvements site. The vegetation within the residential project site had been mowed. As a result, visibility of native soils was 85 percent. Utilizing the same methodology detailed above, Mr. Ngo conducted a survey of the entirety of both project sites beginning in the southeast corner of the residential project site and moving west, using north–south transects spaced at standard 15-meter intervals whenever possible. Observed soils were consistent with the previous survey, largely composed of medium brown (Munsell 7YR 3/4) sandy and silty soil with moderate clay content, interspersed with small stones primarily composed of granite (2 to 3 centimeter) and quartz (1 to 2 centimeter. Small river stones (2 to 3 centimeters) were observed in the northwest portion of the residential project site. Mr. Ngo also surveyed the drainage canal in the Drain No. 5 off-site improvements The drainage canal appears to be over 45 years old in age and may qualify for the CRHR or NRHP. No other unrecorded cultural resources were encountered during the survey. Pedestrian survey photographs can be found in Appendix C.

Native American Heritage Commission and Tribal Consultation

On February 15, 2022, FCS contacted the NAHC to determine whether any sacred sites were located within the residential project site and its vicinity. The area of the proposed Drain No. 5 off-site improvements is already encompassed within the record search vicinity for the proposed residential project. As a result, a new NAHC record search was not conducted. A response was received on March 24, 2022, indicating that the Sacred Lands File search produced a positive result for Native American cultural resources within the vicinity of both project sites, and recommending contacting the North Valley Yokut tribe for additional details. To ensure that all Native American knowledge and concerns over potential Tribal Cultural Resources (TCRs) that may be affected by the proposed residential project are addressed, a letter containing project information was sent by FCS to each of the 12 tribal representatives identified by the NAHC on March 28, 2022. The City also reached out directly to Chairperson Katherine Perez of the North Valley Yokut Tribe on May 17, 2022 requesting any input or additional information on TCRs that may be in the project area. Chairperson Perez responded to the City on May 19, 2022, stating that there are two recorded sites close enough to both project sites to trigger a positive result on the NAHC Sacred Lands File search, neither of which are located within the boundary of either the residential project sites or the Drain No. 5 off-site improvements site.

Chairperson Perez recommended that a TCR Monitor be present at both project sites during project-related ground disturbance. No additional responses have been received to date. NAHC correspondence and copies of the NAHC letters can be found in Appendix C.

a) Historical and Archaeological Resources

Would the project: *Cause a substantial adverse change in the significance of a historical resource as pursuant to Section 15064.5?*

The General Plan FEIR found that a buildout of the General Plan would have a potentially significant impact on historical and archaeological resources. The General Plan FEIR set forth Goals RC-11 and RC-12 Policies RC-P-35, RC-P-36, RC-P-37, RC-P-38, RC-P-39, RC-P-40, RC-I-38, RC-I-39, RC-I-40, RC-I-41, RC-I-42, RC-I-43, RC-I-44, RC-I-45, RC-I-46, and RC-I-47 to reduce the severity of the impacts. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

In accordance with Implementation Measure RC-I-38, a record search for previously recorded archaeological, historical, and cultural resources was conducted at the CCIC. The results of the CCIC record search indicated that there are no previously known or recorded historical resources within either the residential project sites or the Drain No. 5 off-site improvements site. There are 12 recorded resources within a 0.5-mile radius of the proposed residential project and the proposed Drain No. 5 off-site improvements all of which are historic-era resources, and none of which are located within the boundary of both project sites. The pedestrian surveys identified four wells in the project site. An analysis of the wells from historical aerials indicates that the wells were built as part of the agricultural farm that is no longer on-site. The wells are less than 45 years old in age and do not appear to qualify for the CRHR or NRHP. The proposed Drain No. 5 off-site improvements appears to be more than 45 years old in age; however, it lacks the integrity to qualify as a historical resource under the CRHR or NRHP. Therefore, there are no potential significant impacts to historical resources that were not already identified in the General Plan FEIR, and therefore, the residential proposed project would not result in a new or a more adverse impact.

b) Would the project: *Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?*

The General Plan FEIR found that a buildout of the General Plan would have a potentially significant impact on historical and archaeological resources. The General Plan FEIR set forth Goals RC-11 and RC-12 Policies RC-P-35, RC-P-36, RC-P-37, RC-P-38, RC-P-39, RC-P-40, RC-I-38, RC-I-39, RC-I-40, RC-I-41, RC-I-42, RC-I-43, RC-I-44, RC-I-45, RC-I-46, and RC-I-47 to reduce the severity of the impacts. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

In accordance with the General Plan FEIR Implementation Measure RC-I-38, a record search for previously recorded archaeological, historical, and cultural resources was conducted at the CCIC. The results of the CCIC record search indicated there no recorded archaeological resources within the proposed residential project and the proposed Drain No. 5 off-site improvements or a 0.5-mile radius

of both projects. During the pedestrian surveys, all areas of exposed ground surface were examined for evidence of prehistoric artifacts (e.g., fire-affected rock, milling tools, flaked stone tools, tool-making debris, ceramics), soil discoloration and depressions that might indicate the presence of a cultural midden, faunal and human osteological remains. Mr. Ngo did not encounter any unrecorded archaeological resources during the pedestrian surveys of the residential project site and the Drain No. 5 off-site improvements site.

While unlikely, subsurface construction activities always have the potential to damage or destroy previously undiscovered archaeological resources. As required by the General Plan FEIR, and based on the implementation of General Plan FEIR MM RC-I-38, the proposed residential project applicant and the proposed Drain No. 5 off-site improvements applicant shall be required to implement MM CUL-1 consistent with General Plan FEIR. This would reduce potential impacts to a less than significant level.

c) Human Remains

Would the project: *Disturb any human remains, including those interred outside of formal cemeteries?*

The General Plan FEIR found that a buildout of the General Plan would have a potentially significant impact on human remains. The General Plan FEIR set forth Implementation Measure RC-I-48 to reduce the severity of the impacts. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The assessment from the previous General Plan FEIR remains consistent with the results from the records search and the pedestrian survey. As mentioned above, results from the records search did not identify any human remains or cemeteries within the boundaries of the residential project site and the Drain No. 5 off-site improvements site. In addition, the pedestrian survey failed to identify any human remains or cemeteries within either project sites. There is always the possibility that ground-disturbing activities during construction may uncover previously unknown, buried human remains. Should this occur, Section 7050.5 of the California Health and Safety Code and Public Resources Code Section 5097.98 must be followed.

Consistent with the findings in the General Plan FEIR, with the implementation of General Plan FEIR Implementation Measure RC-I-46 and MM CUL-2, impacts would be less than significant regarding the inadvertent discoveries of human remains or cemeteries. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in a new or more severe adverse impact that was not previously identified in the General Plan FEIR.

d-e) Tribal Cultural Resources

Would the project: *Cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code Section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the*

size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

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

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?

While the General Plan FEIR did not directly address TCRs, it did conclude that the buildout of the General Plan would have a potentially significant impact on cultural resources that may be considered significant TCRs by one or more Native American tribes. The General Plan FEIR set forth Goals in RC-P-37, RC-P-38, RC-P-39, RC-P-40, RC-I-38, RC-I-39, RC-I-40, RC-I-41, RC-I-42, RC-I-43, RC-I-44, RC-I-45, RC-I-46, and RC-I-47 to reduce the severity of the impacts. The General Plan FEIR concluded that the residual significance to these resources would be less than significant after implementation of mitigation.

A review of the CRHR, local registers of historic resources, and CCIC record search results failed to identify any previously listed TCRs that may be adversely affected by the proposed residential project and the proposed Drain No. 5 off-site improvements. The NAHC Sacred Lands File produced a positive result for TCRs within the vicinity of both project sites but none within the project sites itself. Following outreach to the North Valley Yokut tribe conducted by the City and FCS, Chairperson Perez responded on May 19, 2022, stating that there are two recorded sites close enough to the project sites to trigger a positive result on the NAHC Sacred Lands File search, neither of which is located within the boundary of both project sites. Chairperson Perez recommended that a TCR Monitor be present during ground disturbance at both project sites.

As required by the General Plan FEIR, and based on the implementation of General Plan FEIR MM RC-38 and information provided the NAHC and Chairperson Perez, the project applicant shall be required to implement MM CUL-1 consistent with the General Plan FEIR. This would reduce potential impacts to a less than significant level.

General Plan FEIR Mitigation Measures

General Plan FEIR Implementation Measure RC-I-38

RC-I-38 Require a records search for any proposed development project, to determine whether the site contains known archaeological, historic, or cultural resources and/or to determine the potential for discovery of additional cultural resources. This requirement may be waived if determined by the City that the proposed project area is already sufficiently surveyed.

General Plan FEIR Implementation Measure RC-I-46

RC-I-46 If human remains are discovered, California Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the county Coroner has made the

necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the Coroner determines that no investigation of the cause of death is required and if the remains are of Native American origin, the Coroner will notify the Native American Heritage Commission, which in turn will inform a most likely descendant. The descendant will then recommend to the landowner appropriate disposition of the remains and any grave goods.

Additional Mitigation Measures

Based on the implementation of General Plan FEIR MM RC-38, FCS conducted a records search and site survey and identified the need for additional monitoring during construction as set forth below.

MM CUL-1 A qualified Archaeologist who meets the Secretary of Interior's Professional Qualification Standards for archaeology and a Tribal Cultural Resources (TCR) Monitor from an affiliated Native American tribe should be present during the initial phase of ground clearance and grading in order to check for the inadvertent exposure of archaeological and TCRs. This may be followed by regular periodic or "spot-check" archaeological monitoring as needed, but full-time archaeological monitoring is not recommended at this time. In the event a potentially significant cultural resource is encountered during subsurface earthwork activities, all construction activities within a 100-foot radius of the find shall cease and workers should avoid altering the materials until the Archaeologist has evaluated the find. The applicant shall include a standard inadvertent discovery clause in every construction contract to inform contractors of this requirement. The qualified Archaeologist shall make recommendations to the lead agency on the measures that shall be implemented to protect the discovered resources, including but not limited to excavation and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. Potentially significant cultural resources include, but are not limited to, stone, bone, glass, wood, or shell artifacts or features, including hearths, structural remains, or historic dumpsites. Any previously undiscovered resources found during construction within the project site shall be recorded on appropriate California Department of Parks and Recreation (DPR) 523 forms and shall be submitted to the City of Manteca, the Central California Information Center (CCIC), and the California Office of Historic Preservation (OHP), as required.

MM CUL-2 In the event of an accidental discovery or recognition of any human remains, Public Resource Code Section 5097.98 must be followed. In this instance, once project-related earthmoving begins and if there is accidental discovery or recognition of any human remains, the following steps shall be taken:

1. 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 is contacted to determine whether the remains are Native American and if an investigation of the cause of death is required. If the Coroner determines the remains to be Native American, the Coroner shall contact the

Native American Heritage Commission (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 Resource Code Section 5097.98, or

2. Where the following conditions occur, the landowner or his/her authorized representative shall rebury the Native American human remains and associated grave goods with appropriate dignity either in accordance with the recommendations of the most likely descendant or on the project area in a location not subject to further subsurface disturbance:
   - The NAHC is unable to identify a most likely descendant or the most likely descendant failed to make a recommendation within 48 hours after being notified by the commission;
   - The descendant identified fails to make a recommendation; or
   - The landowner or his authorized representative rejects the recommendation of the descendant, and the mediation by the NAHC fails to provide measures acceptable to the landowner.

Conclusion

Consistent with findings in the General Plan FEIR, implementation of Goals RC-11 and RC-12, Policies and Implementation Measures RC-P-35, RC-P-36, RC-P-37, RC-P-38, RC-P-39, RC-P-40, RC-I-38, RC-I-39, RC-I-40, RC-I-41, RC-I-42, RC-I-43, RC-I-44, RC-I-45, RC-I-46, RC-I-47, and additional mitigation measures MM CUL-1 and MM CUL-2 would reduce the severity of impacts to cultural resources to a less than significant level.

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.6 Energy *Would the project:*					
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	Significant and unavoidable	No	No	No	No
b) Conflict with or obstruct a State or local plan for renewable energy or energy efficiency?	N/A	No	No	No	No

a) Energy Use

Significant and unavoidable. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on energy consumption. In the General Plan FEIR, "Other CEQA Considerations" states that "The General Plan 2023 would require expanded energy sources and infrastructure for expanded urban development." The General Plan FEIR set forth Goal PF-10 and Policies PF-P-28, PF-I-14, PF-I-15, and PF-I-16, which would ensure adequate, reliable electric service is available to all users in the City, encourage efforts to expand the opportunities for electric power service in the City, support energy conservation measures and innovative uses of solar energy, heat recovery, and cogeneration in all structural and industrial processes, and require the City to confer with utility companies regarding major development plans and cooperate with planning extensions, to reduce the severity of the impact but found that the residual level of significance would still be significant and unavoidable.

The proposed residential project consists of the development of a 420 multi-family residential dwellings on the 18.15-acre project site. The General Plan designates the project site for 'CMU' and the land use designation allows for an FAR of 1, a Maximum Site Coverage of 50 percent, and 15.1 to 25 dwelling units per acre. The General Plan land use designation is intended to accommodate a variety of purposes including high-density residential, employment centers, retail commercial, and professional offices.[25] The proposed residential project's density of 23.1 units per acre did not exceed the maximum density required by the General Plan and is consistent with the land use designation. The proposed Drain No. 5 off-site improvements consists of installation of approximately 675 linear feet of a 60-inch pipe and placement of approximately 896 cubic yards of

[25] City of Manteca. General Plan 2023. (2003) Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Documents/City%20of%20Manteca%20General%20Plan.pdf. Accessed May 22, 2022.

fill material. This site has the land use designation of 'P,' and the proposed drain undergrounding is consistent with that land use designation.

Therefore, the energy consumed during the construction and operation of both the residential project and the Drain No. 5 off-site improvements has been previously considered by the General Plan and General Plan FEIR. In accordance with General Plan FEIR Policy RC-I-8, the proposed projects would be designed and constructed in accordance with the latest adopted edition of the Title 24 Energy Efficiency Standards. For these reasons, neither the proposed residential project nor the proposed Drain No. 5 off-site improvements would result in new or more severe energy impacts than those disclosed in the General Plan FEIR.

A discussion of the proposed projects' anticipated energy usage is presented below. Energy use consumed by the proposed projects was estimated and includes natural gas, electricity, and fuel consumption for project construction and operation. Energy calculations are included as part of Appendix A.

Construction Impacts

The proposed residential project construction schedule was assumed to begin in February 2023 and conclude in June 2025. The proposed off-site improvements is expected to be constructed concurrently with construction of the residential project, with construction beginning in July 2023 and lasting approximately 3 days. If the construction schedule moves to later years, construction emissions would likely decrease because of improvements in technology and more stringent regulatory requirements as older, less efficient equipment is replaced by newer and cleaner equipment. The proposed residential project would require demolition, site preparation, grading, building construction, architectural coating, and paving. The proposed Drain No. 5 off-site improvements would include site preparation and grading activities, as well as hauling fill materials. The construction phase would require energy for the manufacture and transportation of building materials, preparation of the site (e.g., demolition, site clearing, and grading), and the actual construction of the buildings. Petroleum-based fuels such as diesel fuel and gasoline would be the primary sources of energy for these tasks.

The types of on-site equipment used during construction could include gasoline- and diesel-powered construction and transportation equipment, including trucks, bulldozers, frontend loaders, forklifts, and cranes. Construction equipment is estimated to consume a total of 74,458 gallons of diesel fuel over the entire construction duration (Appendix A).

Fuel use associated with construction vehicle trips generated by the proposed projects was also estimated; trips include construction worker trips, haul truck trips for material transport, and vendor trips for construction material deliveries. Fuel use from these vehicles traveling to the project sites was based on (1) the projected number of trips the proposed residential project would generate during construction, (2) average trip distances by trip type, and (3) fuel efficiencies estimated in the ARB's Emission Factors Model (EMFAC) mobile source emission model. The specific parameters used to estimate fuel usage are included in Appendix A. In total, the two proposed projects are estimated

to generate 2,106,959 VMT and a combined 92,997 gallons of gasoline and diesel for vehicle travel during construction.

Other equipment could include construction lighting, field services (office trailers), and electrically driven equipment such as pumps and other tools. Section 17.58.050 of the Manteca Municipal Code defines permissible hours of construction as between the hours of 7:00 a.m. and 7:00 p.m.[26] As on-site construction activities would be restricted to these hours; it is anticipated that the use of construction lighting would be minimal. Singlewide mobile office trailers, which are commonly used in construction staging areas, generally range in size from 160 square feet to 720 square feet. A typical 720-square-foot office trailer would consume approximately 16,711 kilowatt-hour (kWh) during the 28-month construction phase (Appendix A).

The overall construction schedule and process is already designed to be efficient in order to avoid excess monetary costs. For example, equipment and fuel are not typically used wastefully due to the added expense associated with renting the equipment, maintaining it, and fueling it. Therefore, the opportunities for future efficiency gains during construction are limited. Therefore, it is anticipated that the construction phase of the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in wasteful, inefficient, and unnecessary consumption of energy. Construction-related energy impacts would be less than significant.

Operational Impacts

The proposed residential project would consume energy as part of building operations and transportation activities. No new energy usage is expected to be associated with the operation of the proposed Drain No. 5 off-site improvements, which consists of undergrounding an existing drainage canal. The proposed residential project's energy consumption is summarized in Table 11.

Table 11: Estimated Annual Proposed Residential Project Energy Consumption

Energy Consumption Activity	Annual Consumption
Electricity Consumption	1,028,465 kWh/year
Natural Gas Consumption	3,954,820 kBTU/year
Operational Fuel Consumption	287,307 gallons of gasoline and diesel/year
Notes: kWh = kilowatt-hour kBTU = kilo-British Thermal Unit VMT = Vehicle Miles Traveled Source: Appendix A.	

Operation of the proposed residential project would consume an estimated 1,028,465 kWh of electricity and an estimated 3,954,820 kilo-British Thermal Unit (kBTU) of natural gas on an annual

[26] City of Manteca. Manteca Municipal Code, Section 17.58.050 Noise Standards. Website: https://qcode.us/codes/manteca/view.php?topic=17-iii-17_58-17_58_050&highlightWords=permissible+hours+of+construction. Accessed.

basis. The proposed residential project's buildings would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the State's Building Energy Efficiency Standards. These are widely regarded as the most advanced building energy efficiency standards and compliance would ensure that building energy consumption would not be wasteful, inefficient, or unnecessary.

Project-related vehicle trips would consume an estimated 287,307 gallons of gasoline and diesel annually.

Regional access to the residential project site is provided via State Route (SR) 120 and I-5, which are adjacent to the project site. In addition, the southwest corner of the project site is approximately 150 feet east of the West Yosemite Avenue and Saint Dominics Drive bus stop, and the southeast corner of the residential project site is approximately 1,260 feet west of the West Yosemite Avenue and North Union Road bus stop for the local Bus Route 1. Thus, the residential project site does not discourage public transit, and transportation fuel consumption would not be wasteful, inefficient, or unnecessary. As stated above, the energy impacts would be less than significant.

Summary

As addressed above, the impact of the proposed residential project and the proposed Drain No. 5 off-site improvements on energy consumption would be less than significant. The proposed projects would not result in any peculiar effects and would not result in new or more severe impacts related to wasteful, inefficient, or unnecessary energy consumption than what was previously analyzed in the General Plan FEIR.

b) Energy Efficiency and Renewable Energy Standards Consistency

Less than significant impact. The General Plan FEIR did not address the conflicts with renewable energy plans. However, emission conservation strategies were analyzed in the City's General Plan and 2013 Climate Action Plan (CAP).[27] In order to make a determination of whether the proposed residential project and the proposed Drain No. 5 off-site improvements would be consistent with the consistency with energy efficiency and renewable energy standards, the City's General Plan and CAP are referenced herein.

No energy usage is associated with the proposed Drain No. 5 off-site improvements, beyond the construction phase discussed above. The proposed residential project would be served with electricity provided by PG&E. In 2020, PG&E obtained 31 percent of its electricity from renewable energy sources, while the remaining electricity was sourced from nuclear (43 percent), natural gas (16 percent), and large hydroelectric (10 percent).[28] While PG&E's 2020 Renewal Portfolio Standards (RPS) reporting showed that only 31 percent of electricity sales sourced from eligible renewable

[27] City of Manteca. 2013. Climate Action Plan. Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Planning%20Division/Planning%20Division%20Documents/General%20Plan/Climate%20Action%20Plan%20CAP%20Adopted%20Oct%2015%202013.pdf. Accessed May 19, 2022.

[28] Pacific Gas and Electric Company (PG&E). 2021. Delivering low-emission energy. https://www.pge.com/en_US/about-pge/environment/what-we-are-doing/clean-energy-solutions/clean-energy-solutions.page?WT.mc_id=Vanity_cleanenergy. Accessed May 19, 2022.

sources, the RPS requirements apply to a 3-year average of utility provider electricity sourcing to allow for fluctuations in market demand and supply availability. Nonetheless, the proposed residential project's electricity provider is required to meet the State's 2020 objective of 33 percent and is making progress toward the State's 2024 RPS target of 44 percent. The proposed residential project's electricity demands would also be required to meet the State's future objective of 60 percent electricity from renewable energy sources by 2030.

The proposed buildings would be designed In accordance with California Code of Regulations Title 24, California's Energy Efficiency Standards for Residential Buildings as applicable. Title 24 requires that for new multi-family dwellings, 10 percent of total number of all-type parking spaces on a building site shall be electric vehicle (EV) charging spaces.[29] In addition, Title 24 requires low-rise residential buildings (three habitable stories or fewer) to include a rooftop solar system of a minimum capacity,[30] depending on the calculations included in the Appendix A. These standards include minimum energy efficiency requirements related to building envelope, mechanical systems (e.g., heating, ventilation, and air conditioning [HVAC] and water heating systems), and indoor and outdoor lighting.

Furthermore, the CAP requires development projects constructed in the City of Manteca to achieve greenhouse gas (GHG) emissions reductions by taking the following actions: design and construct project buildings to exceed Title 24 Energy Efficiency Standards by at least 10 percent; implement project buildings including water conservation measures that meet or exceed the California Green Building Standards Code (CALGreen) 20 percent requirement; and install project landscaping that meets or exceeds water conservation standards of the City's adopted landscaping ordinance 20 percent reduction requirement. The incorporation of the Title 24 standards and the CAP requirements would ensure that the proposed residential project would not result in the use of energy in a wasteful manner.

The Manteca General Plan contains the following policies related to Resource Conservation (RC) that are relevant to the proposed projects.[31]

General Plan FEIR Implementing Policies

RC-5.3 Require all new public and privately constructed buildings to meet and comply with construction and design standards that promote energy conservation, including the most current "green" development standards in the California Green Building Standards Code.

RC-5.4 Support innovative and green building best practices including, but not limited to, LEED certification for all new development, and encourage public and private

[29] 2019 California Green Building Standard Code (CALGreen), Title 24, Part 6, Subchapter 8. Low-Rise Residential Buildings—Performance and Prescriptive Compliance Approached. Website: https://codes.iccsafe.org/content/CAEC2019/subchapter-8-low-rise-residential-buildings-performance-and-prescriptive-compliance-approaches. Accessed May 19, 2022.

[30] 2019 California Green Building Standard Code (CALGreen), Title 24, Part 11. Residential Mandatory Measures. Website: https://codes.iccsafe.org/content/CAGBSC2019/chapter-4-residential-mandatory-measures. Accessed May 19, 2022.

[31] City of Manteca. 2021. Manteca General Plan Update Environmental Impact Report. Website: https://static1.squarespace.com/static/582f3c2a59cc689c8da65127/t/60538e9e427c364032f6c846/1616088792495/Manteca+GP+DEIR_Public+March+2021_Part1.pdf. Accessed May 19, 2022.

projects to exceed the most current "green" development standards in the California Green Building Standards Code.

RC-5a Implement development standards and best practices that promote energy conservation and the reduction in greenhouse gases, including:

- Require new development to be energy-efficient through passive design concepts (e.g., techniques for heating and cooling, building siting orientation, street and lot layout, landscape placement, and protection of solar access);
- Require construction standards which promote energy conservation including window placement, building eaves, and roof overhangs;
- Require all projects to meet minimum State and local energy conservation standards;
- Require best practices in selecting construction methods, building materials, project appliances and equipment, and project design;
- Encourage and accommodate projects that incorporate alternative energy;
- Encourage projects to incorporate enhanced energy conservation measures and other voluntary methods of reducing energy usage and greenhouse gas emissions; and
- Require large energy users to implement an energy conservation plan as part of the project review and approval process, and develop a program to monitor compliance with and effectiveness of that plan.

RC-5b Continue to review development projects to ensure that all new public and private development complies with the California Code of Regulations, Title 24 standards as well as the energy efficiency standards established by the General Plan and the Municipal Code.

RC-5g Explore alternative energy sources, including cogeneration, active solar energy, and wind generation, and identify opportunities for alternative energy to be used in public and private projects.

While several of these policies are voluntary or cannot be implemented by an individual development project, the air quality mitigation measures and compliance with Title 24 standards would ensure that the two proposed projects would not conflict with any of the General Plan energy conservation policies. For example, the General Plan FEIR's AQ-P-7 requires that new construction will be managed to minimize construction vehicle emissions, which would also reduce the fuel and energy consumption as well. Title 24 requires that for new multi-family dwellings, 10 percent of total number of all-type parking spaces on a building site shall be EV charging spaces.[32] In addition, Title

[32] 2019 California Green Building Standard Code (CALGreen), Title 24, Part 6, Subchapter 8. Low-Rise Residential Buildings—Performance and Prescriptive Compliance Approached. Website: https://codes.iccsafe.org/content/CAEC2019/subchapter-8-low-rise-residential-buildings-performance-and-prescriptive-compliance-approaches. Accessed May 19, 2022.

24 requires low-rise residential buildings (three habitable stories or fewer) to include a rooftop solar system of a minimum capacity,[33] depending on the calculations included in the Appendix A.

Furthermore, the CAP requires development projects constructed in the City of Manteca to achieve GHG reductions by taking the following actions: design and construct project buildings to exceed Title 24 Energy Efficiency Standards by at least 10 percent; implement project buildings including water conservation measures that meet or exceed the CALGreen 20 percent requirement; and install project landscaping that meets or exceeds water conservation standards of the City's adopted landscaping ordinance 20 percent reduction requirement. Therefore, the General Plan FEIR's mitigation measures, CAP requirements, and compliance with Title 24 standards would ensure that the proposed residential project and the proposed Drain No. 5 off-site improvements would not conflict with any of the General Plan energy conservation policies.

Summary

The proposed residential project and the proposed Drain No. 5 off-site improvements would comply with existing State energy standards and with energy conservation policies contained in the Manteca General Plan and CAP. Therefore, the proposed projects would not result in any peculiar effects and would not result in new or more severe impacts related to energy efficiency and renewable energy standards consistency beyond what was previously analyzed in the General Plan FEIR.

General Plan FEIR Mitigation Measures

MM PF-I-15 The City will support energy conservation measures and innovative uses of solar energy, heat recovery, and cogeneration in all structural and industrial processes.

MM RC-I-6 The City shall implement development standards which promote energy conservation and the use of solar energy techniques for heating and cooling, including building orientation, street and lot layout, landscape placement, and protection of solar access.

MM RC-I-8 The City shall enforce Title 24 energy requirements (Building Code) which define construction standards that promote energy conservation.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

[33] 2019 California Green Building Standard Code (CALGreen), Title 24, Part 11. Residential Mandatory Measures. Website: https://codes.iccsafe.org/content/CAGBSC2019/chapter-4-residential-mandatory-measures. Accessed May 19, 2022.

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.7 Geology and Soils *Would the project:*					
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 or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	Less than significant impact	No	No	No	No
ii) Strong seismic ground shaking?	Less than significant impact with mitigation incorporated	No	No	No	No
iii) Seismic-related ground failure, including liquefaction?	Less than significant impact with mitigation incorporated	No	No	No	No
iv) Landslides?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Result in substantial soil erosion or the loss of topsoil?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	Less than significant impact with mitigation incorporated	No	No	No	No

Environmental Issues	Prior FEIR Determination	CEQA Section 15183(b) Criteria			
		Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	No impact	No	No	No	No
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Earthquake Hazards

Would the project: 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 or based on other substantial evidence of a known fault; (ii) Strong Seismic Ground Shaking; (iii) Seismic-related ground failure, including liquefaction; or (iv) Landslides.*

i) Fault Rupture

The General Plan FEIR found that buildout of the General Plan would have no potential to be exposed to fault rupture hazards because no earthquake faults were within the Planning Area. The General Plan FEIR concluded that the residual significance was no impact.

There are no Alquist-Priolo Earthquake Fault Zones within the Planning Area and therefore, none exist within the two project sites. This condition precludes the possibility of either of the two projects being exposed to fault rupture. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts other than what was disclosed in the General Plan FEIR. No additional analysis is required.

ii) Ground Shaking

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with ground shaking. The General Plan FEIR set forth MM GSS-2.1 to reduce the severity of the impact by requiring new development to mitigate the potential impacts of seismic induced settlement, comply with the current Uniform Building Code (UBC), and to comply with California Health and Safety Code Section 19100 *et seq*. (Earthquake Protection Law). The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

A Geotechnical Exploration was prepared by ENGEO on December 10, 2015 (see Appendix D) for the proposed residential project. It is assumed that due to the close proximity of the Drain No. 5 off-site improvements site to the residential site, that the conclusions of the Geotech Exploration can also be applied to the Drain No. 5 off-site improvements site.

According to the Geotechnical Exploration, the residential project site is located in an area of moderate seismicity.[34] The two nearest earthquake faults zoned as active by the State of California Geological Survey are the Great Valley Fault, located approximately 14 miles to the west, and the Greenville Fault, located approximately 24 miles to the southwest. These faults and others in the area could generate an earthquake capable of causing strong ground shaking at the subject site. Large earthquakes have historically occurred in the Bay Area and numerous small magnitude earthquakes occur every year.

To mitigate the shaking effects, ENGEO recommended that structures should be designed using sound engineering judgment and the 2013 California Building Standards Code (CBC) requirements, as a minimum. With incorporation of these requirements, 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. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts other than what was disclosed in the General Plan FEIR. No additional analysis is required.

iii) Ground Failure

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with ground failure or liquefaction. The General Plan FEIR set forth by MM GSS-2.1 to reduce the severity of the impact by requiring new development to mitigate the potential impacts of seismic induced settlement, comply with the current UBC, and to comply with California Health and Safety Code Section 19100 *et seq*. (Earthquake Protection Law). The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

[34] ENGEO. 2015. Geotechnical Exploration, Alma Place, Manteca, California. December 10.

Soil liquefaction results from loss of strength during cyclic loading, which is imposed by earthquakes. ENGEO's Geotechnical Explanation predicts liquefaction would occur at the residential project site,[35,36] and is, therefore, assumed to exist at the Drain No. 5 off-site improvements site as well. However, ENGEO provides recommendations for the structure and foundation of the proposed residential project, such as compaction level of the fill material and ensuring proper engineering oversight. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

iv) Landslides

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with landslides. The General Plan FEIR set forth MM GSS-2.1 to reduce the severity of the impact by requiring new development to mitigate the potential impacts of seismic induced settlement, comply with the current UBC, and to comply with California Health and Safety Code Section 19100 *et seq*. (Earthquake Protection Law). The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The Geotechnical Report found that the residential project site and surrounding area are flat and therefore, not susceptible to landslides.[37] In accordance with MM GSS-2.1, all construction activities would adhere to the applicable requirements of the latest adopted edition of the CBC. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Erosion

Would the project: *Result in substantial soil erosion or the loss of topsoil?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with wind erosion. The General Plan FEIR set forth MM GSS-3.1 to reduce the severity of the impact by requiring all new development to comply with the UBC and requiring proposed development to develop site-specific land management and development practices, including appropriate mitigation measures for avoiding or reducing erosion. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

To the extent that the two project sites are susceptible to wind erosion, this was previously considered by the General Plan FEIR. In accordance with MM GSS-3.1, erosion control measures would be implemented to prevent sedimentation in downstream waterways. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in

[35] Ibid.
[36] ENGEO. 2021. 2019 CBC Seismic Design Parameter and Liquefaction Analysis Update Letter, Prose Manteca, 1563 West Yosemite Avenue, Manteca, California. November 18.
[37] ENGEO. 2015. Geotechnical Exploration, Alma Place, Manteca, California. December 10.

new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Unstable Soils or Geologic Units

Would the project: *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 landsliding, lateral spreading, subsidence, liquefaction, or collapse?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with unstable soils or geologic units and could result in erosion or liquefaction. The City is not susceptible to landslides or subsidence. The General Plan FEIR set forth MM GSS-2.1 and MM GSS-3.1 to reduce the severity of the impact by requiring new development to mitigate the potential impacts of seismic induced settlement, comply with the current UBC, comply with California Health and Safety Code Section 19100 *et seq*. (Earthquake Protection Law), and requiring proposed development to develop site-specific land management and development practices, including appropriate mitigation measures for avoiding or reducing erosion. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

To the extent that the two proposed projects would have impacts related to unstable geologic units or soils, this was previously considered by the General Plan FEIR. The two project sites are not susceptible to landslides or subsidence. As stated above, ENGEO's Geotechnical Exploration predicts that some liquefaction would occur at the residential project site,[38,39] and this same condition is assumed to exist at the Drain No. 5 off-site improvements site. However, ENGEO provides recommendations for the structure and foundation of the proposed residential project, such as compaction level of the fill material and ensuring proper engineering oversight, which would address the potential for liquefaction. In addition, the two proposed projects would adhere to MM GSS-2.1 and MM GSS-3.1. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

d) Expansive Soils

Would the project: *Be located on expansive soil, creating substantial direct or indirect risks to life or property?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with expansive soils. The General Plan FEIR set forth MM GSS-4.1 to reduce the severity of the impact by requiring proposed new developments located in areas of suspected significant geological hazards prepare geological reports and/or geological engineering reports, mitigate the potential impacts of geologic hazards through Building Plan review, and comply with the

[38] ENGEO. 2015. Geotechnical Exploration, Alma Place, Manteca, California. December 10.
[39] ENGEO. 2021. 2019 CBC Seismic Design Parameter and Liquefaction Analysis Update Letter, Prose Manteca, 1563 West Yosemite Avenue, Manteca, California. November 18.

UBC. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Figure 8-1 in the General Plan FEIR illustrates the areas within the City that were determined to have expansive soils, which does not include either of the two project sites. Furthermore, in accordance with MM GSS-4.1, all construction activities would adhere to the applicable requirements of the latest adopted edition of the CBC. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

e) Septic Tanks

Would the project: *Have soils incapable of supporting the use of septic tanks or other alternative wastewater disposal systems where sewers are not available?*

The General Plan FEIR found that buildout of the General Plan would have no potential to increase the use septic or alternative wastewater disposal systems because the General Plan requires new development to be served by sanitary sewer. The General Plan FEIR concluded that the residual significance was no impact.

The proposed residential project would be served by sanitary sewer; no septic or alternative wastewater disposal systems would be employed. The proposed Drain No. 5 off-site improvements does not include a sanitary system of any kind. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

f) Destruction of Paleontological Resource or Unique Geologic Feature

Would the project: *Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact on paleontological resources. The General Plan FEIR set forth MM C-1.1 to reduce the severity of the impact by requiring a records search for any proposed development project. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of any mitigation identified as a result of the records search.

In accordance with MM C-1.1 of the General Plan FEIR, a Paleontological Records Search of the residential project site and surrounding area, which includes the Drain No. 5 off-site improvements site, was conducted by Kenneth L. Finger, PhD on February 18, 2022[40] (see Appendix D). The surface of the entire residential project site and the Drain No. 5 off-site improvements site consists of late Pleistocene Modesto Formation (Qm), a sedimentary unit that has the potential to contain significant paleontological resources, which creates the potential for the encountering

[40] Finger, Dr. Kenneth L. Consulting Paleontologist. 2022. Paleontological Records Search for the Prose Manteca Project (4338.0003), City of Manteca, San Joaquin County. February 18.

paleontological resources. The records search reveals that the Modesto Formation has a high sensitivity but low paleontological potential for significant paleontological resources. Paleontological monitoring of all subsurface construction activities is, therefore, recommended. Implementation of MM GEO-6, which requires monitoring of initial ground disturbance, would reduce impacts to less than significant. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure GSS-2.1

GSS-2.1 The General Plan Safety Element (Section 7) provides the following goals, policies (P), and implementation measures (I) to lessen the possible exposure of people and structures to ground shaking or ground failure, including liquefaction:

S-P-3 The City shall require new development to mitigate the potential impacts of seismic induced settlement of uncompacted fill and liquefaction (water-saturated soil) due to the presence of a high water table.

SG-I-1 All new development shall comply with the current Uniform Building Code (UBC) requirements for Seismic Zone 3, which stipulates building structural material and reinforcement.

SG-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 caused earthquakes and wind.

General Plan FEIR Mitigation Measure GSS-3.1

GSS-3.1 The Conservation and Open Space Resource Conservation Element (Section 8) of the General Plan provides the following implementation measures to mitigation the potential of substantial soil erosion of loss of topsoil.

RC-I-16 All new development shall comply with the Uniform Building Code (UBC) requirements for specific site development and construction standards for specific soils types.

RC-I-17 All new development shall comply with the Uniform Building Code (UBC), Chapter 70, regulating grading activities including drainage and erosion control.

RC-I-18 Require site-specific land management and development practices for proposed development projects, including appropriate mitigation measures for avoiding or reducing erosion.

General Plan FEIR Mitigation Measure GSS-4.1

GSS-4.1 The General Plan Safety Element (Section 7) provides the following policies to lessen the possible exposure to people and structure to the shrink-swell hazards of expansive soils.

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

S-P-2 The City shall require new development to mitigate the potential impacts of geologic hazards through Building Plan review.

The General Plan Resource Conservation Element (Section 8) provides the following implementation measure to lessen the possible exposure of people and structures to the shrink-swell hazards of expansive soils:

RC-I-16 Comply with the Uniform Building Code (UBC) requirements for specific site development and construction standards for specific soil types.

Additional Mitigation Measures

MM GEO-6 The applicant shall hire a qualified Paleontologist to conduct paleontological monitoring of all subsurface construction activities in the Modesto Formation. Should any vertebrate remains (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants) be unearthed, the construction crew should not attempt to remove them, as they could be extremely fragile and therefore prone to crumbling, and to ensure their occurrence is properly recorded; instead, all work in the immediate vicinity of the discovery should be diverted at least 15 feet until a professional Paleontologist assesses the find and, if deemed appropriate, salvages it in a timely manner. All recovered fossils should be deposited in an appropriate repository, such as the University of California Museum of Paleontology (UCMP), where they shall be properly curated and made accessible for future study.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.8 Greenhouse Gas Emissions *Would the project:*					
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	N/A	No	No	No	No
b) Conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	N/A	No	No	No	No

a) Greenhouse Gas Emissions

Less than significant impact. The General Plan FEIR did not address the impact of GHG emissions, however, the emission sources were analyzed in the City's CAP. The City of Manteca adopted its CAP in 2013. In order to make a determination of whether the proposed residential project and the proposed Drain No. 5 off-site improvements would be consistent with local plans intended to reduce GHG emissions, the City's CAP will referenced herein.

Construction Emissions

Total GHG emissions generated during all phases of construction were combined for both projects and are presented in Table 12. The Valley Air District does not recommend assessing the significance of construction-related emissions. However, other jurisdictions, such as the South Coast Air Quality Management District (South Coast AQMD) and the Sacramento Metro Air Quality Management District (SMAQMD), have concluded that construction emissions should be included since they may remain in the atmosphere for years after construction is complete. In order to account for the construction emissions, amortization of the total emissions generated during construction were based on the life of the development (30 years) and added to the operational emissions.

Table 12: Construction Greenhouse Gas Emissions

Activity	Total MT CO_2e per year
Phase 1 Residential Project Construction	
Site Preparation 2023	17
Grading 2023	84
Building Construction 2023	695
Building Construction 2024	352

Activity	Total MT CO_2e per year
Paving 2024	21
Architectural Coating 2024	7
Drain No. 5 Off-Site Project	
Site Preparation 2023	4
Grading 2023	2
Phase 2 Residential Project Construction	
Building Construction 2024	213
Building Construction 2025	194
Architectural Coating 2025	4
Total	**1,593**
Amortized over 30 years	***53***

Notes:
MT CO_2e = metric tons of carbon dioxide equivalent
Because of rounding, total MT CO_2e may be marginally different from CalEEMod output.
Source: CalEEMod Output (Appendix A).

Operational Emissions

Operational or long-term emissions occur over the life of a project. Sources of emissions may include motor vehicles and trucks, energy usage, water usage, waste generation, and area sources, such as landscaping activities. No new emissions are expected to occur from the operation of the proposed Drain No. 5 off-site improvements, which consists of undergrounding an existing drainage canal, therefore, the below analysis focuses on potential emissions from the proposed residential project.

Business as Usual Operational Emissions

Operational emissions under the Business as Usual (BAU) scenario were modeled using CalEEMod Version 2020.4.0. Modeling assumptions for the year 2005 were used to represent 2024 and 2030 BAU conditions (without the benefit of regulations adopted to reduce GHG emissions). The Valley Air District's guidance recommends using emissions in 2002–2004 in the baseline scenario to represent conditions—as if regulations had not been adopted -to allow the effect of projected growth on achieving reduction targets to be clearly defined.

2024 and 2030 Operational Emissions

Operational emissions for the proposed residential project were modeled for the years 2024 and 2030 using CalEEMod. CalEEMod assumes compliance with some, but not all, applicable rules and regulations regarding energy efficiency, vehicle fuel efficiency, renewable energy usage, and other GHG reduction policies, as described in the CalEEMod User's Guide.[41] The reductions obtained from each regulation and the source of the reduction amount used in the analysis are described below.

[41] California Air Pollution Control Officers Association (CAPCOA). User's Guide for CalEEMod Version 2020.4.0. Website: http://www.aqmd.gov/caleemod/user's-guide. Accessed June 30, 2022.

Emissions Accounting for Applicable Regulations

The following regulations are incorporated into the CalEEMod emission factors:

- Pavley I and Pavley II (Low Emission Vehicle [LEV] III) motor vehicle emission standards
- ARB Medium and Heavy-Duty Vehicle Regulation
- 2019 Title 24 Energy Efficiency Standards

The following regulations have not been incorporated into the CalEEMod emission factors and require alternative methods to account for emission reductions provided by the regulations:

- Renewable Portfolio Standards (RPS)
- Low Carbon Fuel Standard (LCFS)
- Green Building Code Standards (indoor water use)
- California Model Water Efficient Landscape Ordinance (WELO) (Outdoor Water)

Pavley II/LEV III standards have been incorporated in the latest version of CalEEMod. The ARB estimates a 3 percent reduction in 2020 and a 19 percent reduction from the vehicle categories subject to the regulation by 2030.[42,43]

The ARB GHG Regulation for Medium and Heavy-Duty Engines and Vehicles applies to trucks that will be accessing the project site. The benefits of the regulation were incorporated into CalEEMod Version 2020.4.0. The ARB estimates that this regulation will reduce GHG emissions from the affected vehicles by 7.2 percent.[44]

The LCFS is estimated to achieve a 10 percent reduction in emissions by 2020 and an 18 percent reduction by 2030.[45] CalEEMod does not include credit for the LCFS, so the reduction is calculated off-model based on reductions required by the regulation.

Title 24 reductions for 2013, 2016, and 2019 updates are included in CalEEMod 2020.4.0.

RPS is not accounted for in CalEEMod 2020.4.0. Reductions from RPS are addressed by revising the electricity emission intensity factor in CalEEMod to account for the utility RPS rate forecast for 2022 and 2030.[46]

Energy savings from water conservation resulting from the Green Building Code Standards for indoor water use and California Model WELO for outdoor water use are not included in CalEEMod. The

[42] California Air Resources Board (ARB). 2010. Pavley 1 + Low Carbon Fuel Standard Postprocessor Version 1.0 User's Guide. Website: https://ww3.arb.ca.gov/cc/sb375/tools/pavleylcfs-userguide.pdf. Accessed June 30, 2022.

[43] California Air Resources Board (ARB). 2013. California's Greenhouse Gas Vehicle Emission Standards under Assembly Bill 1493 of 2002. Website: http://www.arb.ca.gov/cc/ccms/ccms.htm. Accessed June 30, 2022.

[44] California Air Resources Board (ARB). Greenhouse Gas Standards for Medium- and Heavy-Duty Engines and Vehicles. Website: https://ww2.arb.ca.gov/our-work/programs/ghg-std-md-hd-eng-veh. Accessed June 30, 2022.

[45] California Air Resources Board (ARB). Low Carbon Fuel Standard. Website: https://ww2.arb.ca.gov/our-work/programs/low-carbon-fuel-standard. Accessed June 30, 2022.

[46] California Public Utilities Commission. (CPUC). 2021. Annual Renewable Portfolio Standard (RPS) Report to the Legislature. Website: https://www.cpuc.ca.gov/RPS_Reports_Data/. November. Accessed June 30, 2022.

Water Conservation Act of 2009 mandates a 20 percent reduction in urban water use that is implemented with these regulations.[47]

Regulations applicable to project sources and the percent reduction anticipated from each source are shown in Table 13. The percentage reductions are only applied to the specific sources subject to the regulations. For example, the Pavley LEV Standards apply only to light-duty cars and trucks.

Table 13: Summary of Appliable Greenhouse Gas Regulations

Regulation	Project Applicability
Pavley Low Emission Vehicle Standards	Light-duty cars and trucks accessing the site are subject to the regulation.
Truck and Bus Regulation	Heavy-duty trucks and buses accessing the site for deliveries and services are subject to the regulation.
Low Carbon Fuel Standard (LCFS)	Vehicles accessing the site would use fuel subject to the LCFS.
Title 24 Energy Efficiency Standards	The project building would be constructed to meet the latest version of Title 24 (currently 2019). The reduction applies only to energy consumption subject to the regulation.
Green Building Code Standards	The proposed residential project would include water conservation features required by the standard.
Water Efficient Land Use Ordinance	The proposed residential project landscaping would comply with the regulation.
Renewable Portfolio Standard (RPS)	Electricity purchased for use at the project site is subject to the 33 percent RPS mandate.

In addition to rules and regulations, the proposed residential project would incorporate design features and would obtain benefits from its infrastructure. Note that CalEEMod nominally treats these design elements and conditions as "mitigation measures," despite their inclusion in the project description. Therefore, reported operational emissions are considered to represent unmitigated project conditions. Measures that are part of the project design do not require additional CEQA mitigation measures to ensure they are accomplished. Full assumptions and model outputs are provided in Appendix A and results of this analysis for 2024 are presented in Table 14. A second analysis for 2030 is presented in Table 15.

[47] California Department of Water Resources (DWR). 2009. The Water Conservation Act of 2009 (Senate Bill X7-7). November.

Table 14: Proposed Residential Project Operational Greenhouse Gases

Source	Emissions (MT CO_2e per year)	
	Business as Usual	2024
Area	188	5
Energy	756	308
Mobile	4,057	2,775
Waste	103	115
Water	106	61
Amortized Construction Emissions	53	53
Total	**5,263**	**3,373**
Reduction from BAU		1,890
Percent Reduction		35.9%
Significance Threshold		29%
Are emissions significant?		**No**

Notes:
AB = Assembly Bill
BAU = Business as Usual
MT CO_2e = metric tons of carbon dioxide equivalent
The project achieves Valley Air District's 29 percent reduction from BAU threshold, and the 21.7 percent required to show consistency with AB 32 targets.
Source of BAU emissions: CalEEMod output using 2005 modeling year to represent emissions in 2024 without regulations (Appendix A).
Source of 2024 emissions: CalEEMod Output (Appendix A).

As shown in Table 14, the proposed residential project would achieve a reduction of 35.9 percent from BAU by the year 2024 with regulations and design features incorporated. As a result, the proposed residential project would achieve reductions 14.2 percent beyond the ARB 2020 21.7 percent target and 6.9 percent beyond Valley Air District's 29 percent reduction from BAU requirements from adopted regulations and on-site design features in the 2024 operational year. The 35.9 percent reduction from BAU is percent 14.2 beyond the average reduction required by the State from all sources to achieve the Assembly Bill (AB) 32 2020 target and therefore addresses the concern expressed in Newhall Ranch that projects should likely do more than the average to ensure they are providing a fair share of emission reductions.

Additionally, the 2008 recession and slower growth in the years since 2008 have reduced the growth forecasted for 2024, and the amount needed to be reduced to achieve 1990 levels as required by AB 32. The California Department of Finance (CDF) population forecast that Manteca's population growth between 2021 and 2022 is 2.2 percent.[48]

[48] California Department of Finance (CDF). 2021. E-1 Population Estimates for Cities, Counties, and the State – January 1, 2021 and 2022. Website: https://dof.ca.gov/forecasting/demographics/estimates-e1/. Accessed June 30, 2022.

Since the residential project buildout would occur after 2020, additional analysis was conducted to demonstrate consistency with the SB 32 2030 target, as summarized in Table 15.

Table 15: Proposed Residential Project Operational Greenhouse Gases 2030

Source	Emissions (MT CO_2e per year)	
	Business as Usual	2030
Area	188	5
Energy	756	299
Mobile	4,057	2,310
Waste	103	115
Water	106	59
Amortized Construction Emissions	53	53
Total	**5,263**	**2,841**
Reduction from BAU		2,422
Percent Reduction		46.0%
Significance Threshold		29%
Are emissions significant?		**No**

Notes:
AB = Assembly Bill
BAU = Business as Usual
MT CO_2e = metric tons of carbon dioxide equivalent
The project achieves Valley Air District's 29 percent reduction from BAU threshold, and the 21.7 percent required to show consistency with AB 32 targets.
Source of BAU emissions: CalEEMod output using 2005 modeling year to represent emissions in 2020 without regulations (Appendix A).
Source of 2030 emissions: CalEEMod Output (Appendix A).

As shown in Table 15, the proposed residential project would achieve a reduction of 46 percent from BAU by the year 2030. No new threshold has been adopted by the City of Manteca for the 2030 target, so in the interim the proposed residential project must make continued progress toward the 2030 goal.

Furthermore, the proposed residential project consists of the development of a 420 multi-family residential dwellings on the 18.15-acre project site. The General Plan designates the project site for 'CMU' and the land use designation allows for a FAR of 1, a Maximum Site Coverage of 50 percent, and 15.1 to 25 dwelling units per acre. The proposed residential project's density of 23.1 units per acre is less than the maximum density required by the General Plan and consistent with the land use designation. Therefore, it is reasonable to assume that the GHG emissions during project construction and operation has been previously considered by the General Plan and General Plan FEIR.

In conclusion, the proposed residential project would achieve reductions 24.3 percent beyond the ARB 2020 21.7 percent target and 17.0 percent beyond SJVAPCD's 29 percent reduction from BAU requirements from adopted regulations and on-site design features in the 2030 operational year. No new threshold has been adopted by the City of Manteca for the SB 32 2030 target. Furthermore, the CAP requires development projects constructed in the City to achieve GHG reductions by taking the following actions: design and construct project buildings to exceed Title 24 Energy Efficiency Standards by at least 10 percent; implement project buildings including water conservation measures that meet or exceed the CALGreen 20 percent requirement; and install project landscaping that meets or exceeds water conservation standards of the City's adopted landscaping ordinance 20 percent reduction requirement. Based on this progress and the 2017 Scoping Plan Update, it is reasonable to conclude that the proposed residential project is consistent with the 2017 Scoping Plan and will contribute a reasonable fair-share contribution to achieving the 2030 target. The fair share may be achieved through compliance with increasingly stringent State regulations that apply to new development, such as Title 24 and CALGreen; regulations on energy production, fuels, and motor vehicles that apply to both new and existing development; and voluntary actions to improve energy efficiency in existing development.

In addition, compliance with the VMT targets adopted to comply with SB 375 and implemented through the Regional Transportation Plan and Sustainable Communities Strategy RTP/SCS may be considered to adequately address GHG emissions from passenger cars and light-duty trucks. Furthermore, the State strategy relies on the Cap-and-Trade Program to make up any shortfalls that may occur from the other regulatory strategies. The costs of cap-and-trade emission reductions would ultimately be passed on to the consumers of fuels, electricity and products produced by regulated industries which include future residents of development projects and other purchasers of products and services. Therefore, impacts would be less than significant.

Summary

As addressed above, the proposed Drain No. 5 off-site improvements is not expected to generate new emissions, beyond the minor emissions occurring from project construction, and this project would have a less than significant impact. The proposed residential project's GHG emissions would be below the significance thresholds and would have a less than significant impact. The City's CAP requires development projects to achieve GHG reductions by exceeding several Title 24 standards and CALGreen Building Codes. Therefore, the proposed project's GHG impacts would be less than significant. The proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to GHG emissions during project operation than what was previously analyzed in the General Plan FEIR.

GHG Emissions Reduction Plan

GHG emission sources were analyzed in the City's CAP. In order to make a determination of whether the proposed Drain No. 5 off-site improvements and the proposed residential project would be consistent with plans intended to reduce GHG emissions, the City's General Plan, CAP, and the State of California 2017 Scoping Plan will be referenced herein.

Consistency with City of Manteca's General Plan

The General Plan includes policies and implementing actions that support and implement the goals established by the CAP, and would minimize potential impacts associated with GHG emissions in the Planning Area. The intent of the CAP is to achieve compliance with State GHG reduction mandates by focusing on feasible actions the City can take to minimize the adverse impacts of growth and development on climate change. The CAP does not reinvent the wheel; rather, it builds on the General Plan policies and implementation measures. Where needed, the CAP provides more details to clarify and focus action and to ensure implementation.

The General Plan contains the following policies related to GHG emissions reduction that are applicable to the proposed residential project.[49]

General Plan FEIR Implementing Policies

RC-5.3 Require all new public and privately constructed buildings to meet and comply with construction and design standards that promote energy conservation, including the most current "green" development standards in the California Green Building Standards Code.

RC-5.4 Support innovative and green building best practices including, but not limited to, LEED certification for all new development, and encourage public and private projects to exceed the most current "green" development standards in the California Green Building Standards Code.

RC-6.4 Require appliances and equipment, including wood-burning devices, in development projects to meet current standards for controlling air pollution, including particulate matter and toxic air contaminants.

C-2f Ensure that bicycle and pedestrian access is provided through walls and berms to minimize travel distances and increase the viability walking and bicycling.

RC-5a Implement development standards and best practices that promote energy conservation and the reduction in greenhouse gases, including:

- Require new development to be energy-efficient through passive design concepts (e.g., techniques for heating and cooling, building siting orientation, street and lot layout, landscape placement, and protection of solar access);
- Require construction standards which promote energy conservation including window placement, building eaves, and roof overhangs;
- Require all projects to meet minimum State and local energy conservation standards;
- Require best practices in selecting construction methods, building materials, project appliances and equipment, and project design;

[49] City of Manteca. 2021. Manteca General Plan Update Environmental Impact Report. March.

- Encourage and accommodate projects that incorporate alternative energy;
- Encourage projects to incorporate enhanced energy conservation measures and other voluntary methods of reducing energy usage and greenhouse gas emissions; and
- Require large energy users to implement an energy conservation plan as part of the project review and approval process, and develop a program to monitor compliance with and effectiveness of that plan.

RC-5b Continue to review development projects to ensure that all new public and private development complies with the California Code of Regulations, Title 24 standards as well as the energy efficiency standards established by the General Plan and the Municipal Code.

While several of these policies are voluntary or are need not to be implemented by an individual development project, compliance with Title 24 standards would ensure that the proposed Drain No. 5 off-site improvements and the proposed residential project would not conflict with any of the General Plan energy conservation policies related to building envelopes, mechanical systems, and indoor and outdoor lighting.

City of Manteca Climate Action Plan

Table 16 shows the City of Manteca CAP policies that would apply to the proposed residential project and the proposed Drain No. 5 off-site improvements, and how the proposed projects would be consistent.

Table 16: Consistency with City of Manteca Climate Action Plan

CAP Strategy	Project Consistency
CD-1 The City shall encourage projects consistent with the development densities allowed by the General Plan and that are contiguous to existing development meet compact development criteria.	**Consistent.** The residential project site is currently vacant and undeveloped. The General Plan designates the project site for 'CMU' use and the 'CMU' land use designation allows for 15.1 to 25 dwelling units per acre. The proposed residential project would construct a total of 420 multi-family residential units on 18.64 acres, which is approximately 23 units per acre. The proposed Drain No. 5 off-site improvements are consistent with the "P" land use designation included in the General Plan for the project site.
POD-1 During the review of subdivision maps and site plans, the City shall ensure that project designs provide internal and external pedestrian connections where appropriate.	**Consistent.** As shown in Exhibit 5, the proposed residential project would include sidewalks along all internal streets and would provide sidewalks that connect to adjacent intersections. This measure does not apply to the proposed Drain No. 5 off-site improvements.
ENB-1 The City shall require developers to exceed Title 24 Energy Efficiency Standards by at least 10 percent. The City recognizes that it may not be	**Consistent.** The proposed residential project would include rooftop photovoltaic solar panels on all buildings that would provide electricity. In addition, the

CAP Strategy	Project Consistency
feasible for all buildings and structures to exceed Title 24 by this amount because of the form or function of the building. Projects that cannot meet the reduction level may provide solar panels or other non-building-related energy efficiency measures such as exterior lighting or water savings.	proposed residential project would include low water demand landscaping that would reduce water consumption compared to standard turf lawns. As described previously, the proposed residential project as well as the proposed Drain No. 5 off-site improvements would comply with Title 24 and California Green Building Standards Code (CALGreen).
SG-1 The City shall encourage development projects to provide solar power as part of their strategy to reduce greenhouse gas emissions.	**Consistent.** The proposed residential project would include rooftop photovoltaic solar panels on all buildings that would provide electricity. This measure does not apply to the proposed Drain No. 5 off-site improvements.
WC-1 The City shall continue to implement water conservation measures to comply with the Model Water Efficient Landscape requirements that implement the Water Conservation in Landscaping Act of 2006 (AB 1881, Laird).	**Consistent.** The proposed residential project would include low water demand landscaping that would reduce water consumption compared to standard turf lawns. Additionally, the proposed residential project would include bioretention areas to retain stormwater on-site and reduce the need for outdoor watering. This measure does not apply to the proposed Drain No. 5 off-site improvements.
W-1 The City shall require new multi-family and commercial development projects to provide adequate locations to segregate recyclable materials.	**Consistent.** The proposed residential project would include recycling bins for both recyclable material and yard waste consistent with the City of Manteca and State of California requirements. This measure does not apply to the proposed Drain No. 5 off-site improvements.
Source: City of Manteca. 2013. Climate Action Plan. October.	

Consistency with California's Post-2020 Targets

The State's executive branch adopted several Executive Orders related to GHG emissions. Executive Orders S-3-05 and B-30-15 are two examples. Executive Order S-3-05 sets goals to reduce emissions to 1990 levels by 2020 and 80 percent below 1990 levels by 2050. The goal of Executive Order S-3-05 to reduce GHG emissions to 1990 levels by 2020 was codified by AB 32. The proposed residential project and the proposed Drain No. 5 off-site improvements, as analyzed above, are consistent with AB 32. Therefore, the proposed projects do not conflict with this component of Executive Order S-3-05. Executive Order B-30-15 establishes an interim goal to reduce GHG emissions to 40 percent below 1990 levels by 2030.

The 2030 goal was codified under SB 32 and is now addressed by the 2017 Scoping Plan Update. The new plan provides a strategy that is capable of reaching the SB 32 target if the measures included in the plan are implemented and achieve reductions within the ranges expected. Under the Scoping Plan Update, local government plays a supporting role through its land use authority and control over local transportation infrastructure. The Plan Update includes reductions from implementation of SB 375 that applies to VMT from passenger vehicles. San Joaquin County targets for SB 375 are 5

percent reduction by 2020 and a 10 percent reduction by 2035 in terms of GHG per capita. SB 375 is implemented with the San Joaquin Council of Governments (COG) RTP/SCS.[50] The RTP/SCS outlines strategies to improve regional transportation system efficiency to encourage fewer and shorter passenger vehicle trips and more trips by transit, walking, and bicycling in amounts sufficient to achieve the SB 375 targets.

Now that the 2017 Scoping Plan has been adopted, new methodologies and threshold approaches are required to determine the fair-share contributions City development projects would need to make to achieve the 2030 target. In the meantime, however, the discussion under "Consistency with SB 32" below addresses the consistency of the proposed residential project with SB 32, which provides the statutory underpinning of the 2017 Scoping Plan. The SB 32 target requires GHG emissions to be reduced from 1990 levels. No consensus has been reached around the State on a new quantitative target for new development based on consistency with the SB 32 targets.

The Executive Order S-3-05 2050 target has not been codified by legislation. Studies have shown that, in order to meet the 2050 target, aggressive pursuit of technologies in the transportation and energy sectors, including electrification and the decarbonization of fuel, will be required. Because of the technological shifts required and the unknown parameters of the regulatory framework in 2050, quantitatively analyzing the project's impacts further relative to the 2050 goal is speculative for purposes of CEQA.[51]

The ARB recognizes that AB 32 establishes an emissions reduction trajectory that will allow California to achieve the more stringent 2050 target: "These [GHG emission reduction] measures also put the State on a path to meet the long-term 2050 goal of reducing California's GHG emissions to 80 percent below 1990 levels. This trajectory is consistent with the reductions that are needed globally to stabilize the climate." In addition, ARB's First Update "lays the foundation for establishing a broad framework for continued emission reductions beyond 2020, on the path to 80 percent below 1990 levels by 2050," and many of the emission reduction strategies recommended by ARB would serve to reduce the proposed residential project's post-2020 emissions level to the extent applicable by law:

- **Energy Sector:** Continued improvements in California's appliance and building energy efficiency programs and initiatives, such as the State's zero-net-energy building goals, would serve to reduce the project's emissions level. Additionally, further additions to California's renewable resource portfolio would favorably influence the project's emissions level.
- **Transportation Sector:** Anticipated deployment of improved vehicle efficiency, zero emission technologies, lower carbon fuels, and improvement of existing transportation systems all would serve to reduce the project's emissions level.
- **Water Sector:** The project's emissions level would be reduced as a result of further desired enhancements to water conservation technologies.

[50] San Joaquin Council of Government. 2018. Adopted Regional Transportation Plan and Sustainable Communities Strategy. June.
[51] California Air Resource Board (ARB). 2017. California's 2017 Climate Change Scoping Plan. November.

- **Waste Management Sector:** Plans to further improve recycling, reuse and reduction of solid waste would beneficially reduce the project's emissions level.

For the reasons described above, the proposed residential project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets. The trajectory required to achieve the post-2020 targets is shown in Figure 1.

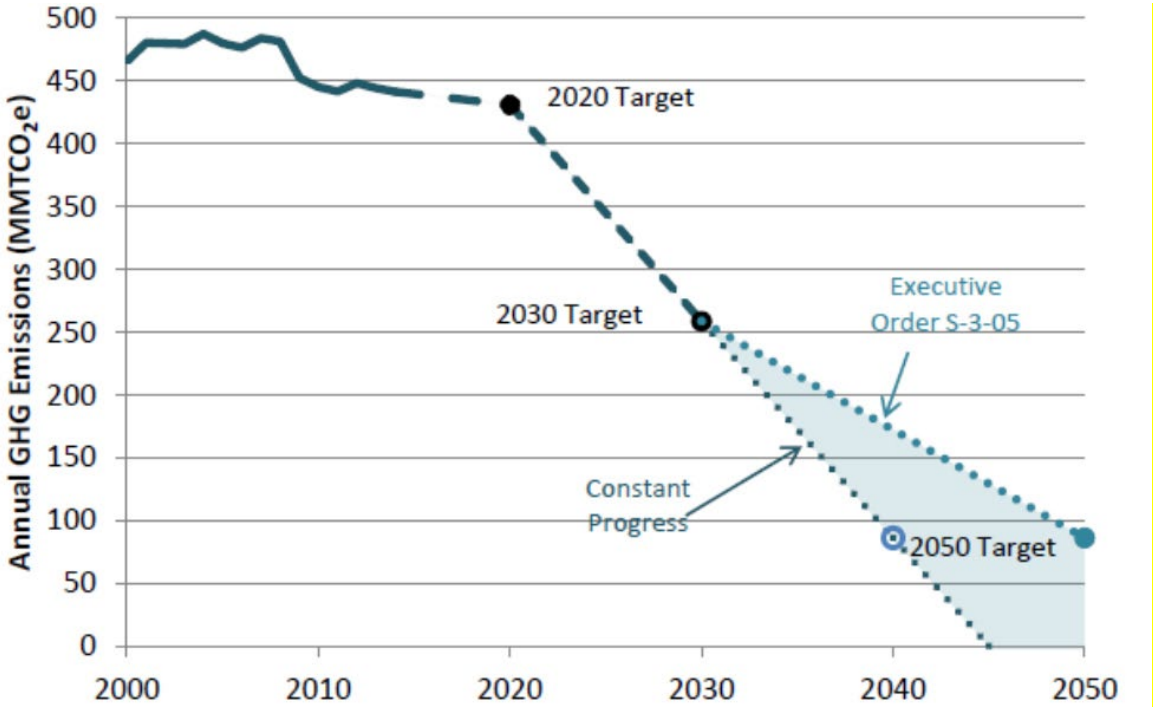


Figure 1: California's Path to Achieving the 2050 Target[52]

In his January 2015 inaugural address, Governor Brown expressed a commitment to achieve "three ambitious goals" that he would like to see accomplished by 2030 to reduce the State's GHG emissions:

- Increasing the State's RPS from 33 percent in 2020 to 50 percent in 2030;
- Cutting the petroleum use in cars and trucks in half; and
- Doubling the efficiency of existing buildings and making heating fuels cleaner.

These expressions of executive branch policy may be manifested in adopted legislative or regulatory action through the State agencies and departments responsible for achieving the State's environmental policy objectives, particularly those relating to global climate change.[53]

[52] California Air Resources Board (ARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed June 30, 2022.

[53] California Office of Governor Edmund G. Brown. 2015. Governor Brown Establishes Most Ambitious Greenhouse Gas Reduction Target in North America. April.

Further, recent studies show that the State's existing and proposed regulatory framework will allow the State to reduce its GHG emissions level to 40 percent below 1990 levels by 2030, and to 80 percent below 1990 levels by 2050. Even though these studies did not provide an exact regulatory and technological roadmap to achieve the 2030 and 2050 goals, they demonstrated that various combinations of policies could allow the Statewide emissions level to remain very low through 2050, suggesting that the combination of new technologies and other regulations not analyzed in the studies could allow the State to meet the 2050 target.[54]

Given the proportional contribution of mobile source-related GHG emissions to the State's inventory, recent studies also show that relatively new trends—such as the increasing importance of web-based shopping, the emergence of different driving patterns, and the increasing effect of web-based applications on transportation choices—are beginning to substantially influence transportation choices and the energy used by transportation modes. These factors have changed the direction of transportation trends in recent years and will require the creation of new models to effectively analyze future transportation patterns and the corresponding effect on GHG emissions. For the reasons described above the proposed residential project's post-2020 emissions trajectory is expected to follow a declining trend, consistent with the 2030 and 2050 targets.

Consistency with SB 32

The 2017 Climate Change Scoping Plan Update (2017 Scoping Plan) includes the strategy that the State intends to pursue to achieve the 2030 targets of Executive Order S-3-05 and SB 32. The 2017 Scoping Plan includes the following summary of its overall strategy for reaching the 2030 target:

- SB 350
  - Achieve 50 percent RPS by 2030.
  - Doubling of energy efficiency savings by 2030.
- Low Carbon Fuel Standard
  - Increased stringency (reducing carbon intensity 18 percent by 2030, up from 10 percent in 2020).
- Mobile Source Strategy (Cleaner Technology and Fuels Scenario)
  - Maintaining existing GHG standards for light- and heavy-duty vehicles.
  - Put 4.2 million Zero-Emission Vehicles (ZEVs) on the roads.
  - Increase ZEV buses, delivery and other trucks.
- Sustainable Freight Action Plan
  - Improve freight system efficiency.
  - Maximize use of near-zero emission vehicles and equipment powered by renewable energy.
  - Deploy over 100,000 zero-emission trucks and equipment by 2030.
- Short-Lived Climate Pollutant Reduction Strategy
  - Reduce emissions of methane and hydrofluorocarbons 40 percent below 2013 levels by 2030.

[54] Energy and Environmental Economics. 2019. Legal Pathways to Deep Decarbonization in the United States. March.

  - Reduce emissions of black carbon 50 percent below 2013 levels by 2030.

- SB 375 Sustainable Communities Strategies
  - Increased stringency of 2035 targets.
- Post-2020 Cap-and-Trade Program
  - Declining caps, continued linkage with Québec, and linkage to Ontario, Canada.
  - ARB will look for opportunities to strengthen the program to support more air quality co-benefits, including specific program design elements. In Fall 2016, ARB staff described potential future amendments including reducing the offset usage limit, redesigning the allocation strategy to reduce free allocation to support increased technology and energy investment at covered entities and reducing allocation if the covered entity increases criteria or toxics emissions over some baseline.
- By 2018, develop Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Table 17 provides an analysis of the consistency of the proposed residential project and the proposed Drain No. 5 off-site improvement project with the measures included in the 2017 Scoping Plan.

Table 17: Consistency with SB 32 2017 Scoping Plan Update

Scoping Plan Measure	Project Consistency
SB 350 50 percent Renewable Mandate. Utilities subject to the legislation will be required to increase their renewable energy mix from 33 percent in 2020 to 50 percent in 2030.	**Not applicable.** This measure would apply to utilities and not to individual development projects. The proposed residential project would purchase electricity from a utility subject to the SB 350 Renewable Mandate and the RPS requirements. SB 100 has increased the 2030 RPS standards to 60 percent by 2030, superseding the increase required by SB 350.
SB 350 Double Building Energy Efficiency by 2030. This is equivalent to a 20 percent reduction from 2014 building energy usage compared to current projected 2030 levels.	**Not applicable**. This measure applies to existing buildings. New structures are required to comply with Title 24 Energy Efficiency Standards that are expected to increase in stringency over time. The proposed projects would comply with the applicable Title 24 Energy Efficiency Standards in effect at the time building permits are received.
Low Carbon Fuel Standard. This measure requires fuel providers to meet an 18 percent reduction in carbon content by 2030.	**Not applicable.** This is a Statewide measure that cannot be implemented by a project applicant or lead agency. However, vehicles accessing the project site would benefit from the standards.
Mobile Source Strategy (Cleaner Technology and Fuels Scenario). Vehicle manufacturers will be required to meet existing regulations mandated by the LEV III and Heavy-Duty Vehicle programs. The strategy includes a goal of having 4.2 million ZEVs	**Consistent**. The proposed residential project is residential in nature and the operation would include the manufacture of cars or trucks, but the proposed residential project does include charging infrastructure to support ZEVs. No mobile source operational

Scoping Plan Measure	Project Consistency
on the road by 2030 and increasing numbers of ZEV trucks and buses.	emissions are associated with the operation of the proposed Drain No. 5 off-site improvements.
Sustainable Freight Action Plan. The plan's target is to improve freight system efficiency 25 percent by increasing the value of goods and services produced from the freight sector, relative to the amount of carbon that it produces by 2030. This would be achieved by deploying over 100,000 freight vehicles and equipment capable of zero emission operation and maximize near-zero emission freight vehicles and equipment powered by renewable energy by 2030.	**Not applicable**. The proposed residential project is residential in nature and the operation would not lead to any significant freight movement activities. Furthermore, no freight movement is associated with the proposed Drain No. 5 off-site improvements.
Short-Lived Climate Pollutant (SLCP) Reduction Strategy. The strategy requires the reduction of SLCPs by 40 percent from 2013 levels by 2030 and the reduction of black carbon by 50 percent from 2013 levels by 2030.	**Consistent.** The proposed projects would not include major sources of black carbon. This measure revolves around ARB's SLCP Reduction Strategy that was released in April 2016 as a result of SB 650. SB 650 required the State to develop a strategy to reduce emissions of SLCPs. DPM reductions have come from strong efforts to reduce on-road vehicle emissions. Car and truck engines used to be the largest sources of anthropogenic black carbon emissions in California, but the State's existing air quality policies will virtually eliminate black carbon emissions from on-road diesel engines within 10 years. These policies are based on existing technologies.
SB 375 Sustainable Communities Strategies. Requires Regional Transportation Plans to include a sustainable communities strategy for reduction of per capita vehicle miles traveled.	**Not applicable.** The proposed projects do not include the development of a Regional Transportation Plan.
Post-2020 Cap-and-Trade Program. The Post 2020 Cap-and-Trade Program continues the existing program for another 10 years. The Cap-and-Trade Program applies to large industrial sources such as power plants, refineries, and cement manufacturers.	**Not applicable.** The two proposed projects are not targeted by the cap-and-trade system regulations, and, therefore, this measure does not apply to the proposed residential project. However, the post-2020 Cap-and-Trade Program indirectly affects people and entities who use the products and services produced by the regulated industrial sources when increased cost of products or services (such as electricity and fuel) are transferred to the consumers.
Natural and Working Lands Action Plan. The ARB is working in coordination with several other agencies at the federal, State, and local levels, stakeholders, and with the public, to develop measures as outlined in the Scoping Plan Update and the governor's Executive Order B-30-15 to reduce GHG emissions and to cultivate net carbon sequestration potential for California's natural and working land.	**Not applicable**. The two project sites are in a built-up urban area and would not be considered natural or working lands.

Scoping Plan Measure	Project Consistency
Source: California Air Resources Board (ARB). 2017. The 2017 Climate Change Scoping Plan Update. January 20. Website: https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf. Accessed June 30, 2022.	

Regarding goals for 2050 under Executive Order S-3-05, at this time it is not possible to quantify the emissions savings from future regulatory measures, as they have not yet been developed; nevertheless, it can be anticipated that operation of the proposed residential project would comply with whatever measures are enacted that State lawmakers decide would lead to an 80 percent reduction below 1990 levels by 2050. In its 2008 Scoping Plan, ARB acknowledged that the "measures needed to meet the 2050 are too far in the future to define in detail." In the First Scoping Plan Update; however, ARB generally described the type of activities required to achieve the 2050 target: "energy demand reduction through efficiency and activity changes; large scale electrification of on-road vehicles, buildings, and industrial machinery; decarbonizing electricity and fuel supplies; and rapid market penetration of efficiency and clean energy technologies that requires significant efforts to deploy and scale markets for the cleanest technologies immediately." The 2017 Scoping Plan provides an intermediate target that is intended to achieve reasonable progress toward the 2050 target.

Summary

The proposed residential project and the proposed Drain No. 5 off-site improvements are consistent with the City of Manteca's CAP and would not conflict with the provisions of SB 32. Therefore, the proposed projects do not conflict with any plans to reduce GHG emissions and the impact would be less than significant. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in peculiar effects and would not result in new or more severe impacts related to conflicts with applicable GHG reduction plans than previously analyzed in the General Plan FEIR.

Applicable General Plan FEIR Mitigation Measures

None.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.9 Hazards and Hazardous Materials *Would the project:*					
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	Less than significant impact with mitigation incorporated	No	No	No	No
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	No impact	No	No	No	No
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?	N/A	No	No	No	No
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	Less than significant impact with mitigation incorporated	No	No	No	No
g) Expose people or structures, either directly or indirectly to a significant risk of loss, injury or death involving wildland fires?	No impact	No	No	No	No

a) Routine Transport, Use, or Disposal of Hazardous Materials

Would the project: *Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with the routine transport, use, or disposal of hazardous materials resulting from light industrial development and some commercial development, which may lead to more transportation of hazardous materials to and from I-5. The General Plan FEIR set forth MM HM-1.1 to reduce the severity of the impact by requiring businesses that manufacture, store, use, or transport significant quantities of hazardous materials to identify annually such materials and their quantities, and by requiring the submittal of lists of hazardous materials used in existing and proposed industrial and commercial businesses within the City of Manteca to the Manteca Fire Department. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

A Phase I Environmental Site Assessment (Phase I ESA) was conducted for the residential project site by ENGEO on December 6, 2021[55] (see Appendix E). Because the Phase I ESA considered the potential hazardous materials records within a 0.5-mile radius, it is assumed that the conclusions of the Phase I ESA apply broadly to the Drain No. 5 off-site improvements site.

The Phase I ESA notes that a Recognized Environmental Condition (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. The Phase I ESA did not identify any RECs at the residential project site and determined that it is suitable for residential development. No further investigation at the residential project site was recommended. Because no environmental database listings or regulatory agency records were identified in the Phase I ESA for the Manteca Park Golf Course, where the Drain No. 5 off-site improvements site is located, it is assumed that the Drain No. 5 off-site improvement site is suitable for the proposed drain undergrounding. However, should evidence of hazardous substances (i.e., evidence of illegal dumping, stained or discolored soil, or stressed vegetation) be encountered during the canal undergrounding project, a soil management plan would be developed to characterize and properly manage excavated soil.

The proposed residential project would require the transport, use, or dispose of small quantities of hazardous materials, such as common household or pool cleaning supplies. However, MM HM-1.1 would require that the storage, use, or transportation of hazardous materials is annually disclosed to the City. Additionally, numerous federal, State, and local laws and regulations have been enacted to regulate the management of hazardous materials. To the extent that the proposed residential project handles common hazardous materials, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not transport, use, or dispose of hazardous materials. For these reasons, the proposed residential project and the proposed Drain No.

[55] ENGEO. 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, California. December 6.

5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Risk of Upset

Would the project: *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?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact in terms of increased risk of upset from releases of hazardous materials. Risk of accident involving hazardous materials would be increased because buildout of the General Plan would involve expanded industrial and commercial uses that could involve transportation, storage, and use of hazardous materials. The General Plan FEIR sets forth MM HM-2.1 to reduce the severity of the impact by regulating the production, use, storage, and transport of hazardous materials to protect the health of City residents. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

As described above, the Phase I ESA did not identify and RECs on the residential project site. While the proposed residential project would use some hazardous materials and could create potential risk of accident, the proposed residential project would be a small-quantity user of hazardous materials. Additionally, numerous federal, State, and local laws and regulations have been enacted to regulate the management of hazardous materials to reduce risks of accident. The proposed Drain No. 5 off-site improvements would not use hazardous materials and would, therefore, not create potential risk of accident. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Exposure of Schools to Hazardous Materials or Emissions

Would the project: *Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact in terms of exposing schools to hazardous materials or emissions because there were plans for additional schools to be built. The General Plan FEIR set forth MM HM-3.1 to reduce the severity of the impact by considering the potential of new development for the production, use, storage, and transport of hazardous materials and by providing for reasonable controls on such hazardous materials. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The residential project site is located approximately 0.3 mile north of Sierra High School, and, therefore, would have the potential to expose schools located within 0.25 mile of a school. However, as described above, the proposed residential project would involve the use of only quantities of hazardous materials such as common household or pool cleaning supplies. Furthermore, the

proposed residential project would be required to implement MM HM-3.1 to reduce the severity of the impact. The proposed Drain No. 5 off-site improvements are located approximately 0.58 miles north of Sierra High School, and, therefore, would not have the potential to expose schools located within 0.25 mile of a school. Furthermore, the proposed Drain No. 5 off-site improvements would not use hazardous materials and would, therefore, not create potential risk of exposure. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

d) Hazardous Materials Sites

Would the project: *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?*

The General Plan FEIR found that buildout of the General Plan would have no impact on Cortese List hazardous materials sites because none are located within the Planning Area.

According to the Phase I ESA, the proposed residential project is not listed on Environmental Record Source Databases, including those compiled pursuant to Government Code Section 65962.5.[56] The proposed Drain No. 5 off-site improvements site is not listed in these databases either.[57,58] Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

e) Airports

Would the project: *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?*

The General Plan FEIR did not address exposure of persons to aviation hazards due to being within proximity to an airport. There are no airports within the Planning Area and the nearest one (Stockton Municipal Airport) is more than 1 mile north of the Planning Area. Therefore, the likelihood of exposure to aviation hazards is very low. The General Plan FEIR concluded that no impact would occur.

The two project sites are located approximately 8 miles south of the Stockton Municipal Airport. This condition precludes the possibility of exposure to aviation hazards. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or

[56] ENGEO 2021. Modified Phase I Environmental Site Assessment, Prose Manteca, Manteca, CA. December 6.
[57] California State Water Resources Control Board (Water Board). 2022. GeoTracker. Website: https://geotracker.waterboards.ca.gov/. Accessed June 14, 2022.
[58] California Department of Toxic Substance Control (DTSC). 2022. EnviroStor. Website: https://www.envirostor.dtsc.ca.gov/public/. Accessed June 14, 2022.

more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

f) Emergency Response and Evacuation

Would the project: *Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with emergency response and evacuation. The General Plan FEIR sets forth MM HM-5.1 to reduce the severity of impacts by periodic emergency response exercises conducted by the City to test the effectiveness of City emergency response procedures, and by City review of County and State emergency response procedures that must be coordinated with City procedures. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Center Street, located east of the residential project site, currently terminates at the residential project site's eastern boundary. As part of the proposed residential project, this road would be extended through the residential project site, as shown in Exhibit 5a. The northern portion of the proposed residential project would have three driveways connecting to Center Street, while the southern portion of the proposed residential project would have two driveways connecting to Center Street and one driveway connecting to West Yosemite Avenue. In addition, three Emergency Vehicle Access (EVA) points would be provided: two on West Yosemite Avenue and one on West Center Street extension. As shown in Exhibit 5a, the West Yosemite Avenue driveway would serve as the fourth leg of the West Yosemite Avenue/Winters Drive intersection. The driveways would be consistent with California Fire Code requirements for emergency access. Furthermore, parking lots throughout the residential project site would allow for emergency vehicle access to each proposed building. Finally, the proposed residential project's site plans have been submitted to the City of Manteca Fire Department for review. The proposed Drain No. 5 off-site improvements are located on City property adjacent to the Manteca Park Golf Course, but would not contribute to an increased use of the golf course. People present at this location at a time of an emergency would follow the golf course's evacuation procedures. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

g) Wildland Fires

Would the project: *Expose people or structures, either directly or indirectly to a significant risk of loss, injury or death involving wildland fires?*

The General Plan FEIR addressed wildland fires in Section 1.5, Effects Found not to be Significant. The undeveloped portions of the Planning Area mostly contain agricultural land, which has an extremely low susceptibility to wildland fires because the land is actively managed. Therefore, the likelihood of the Planning Area being exposed to wildland fires is low. No impact would occur.

The two project sites contain flat, undeveloped land that previously supported farming operations. They are bordered by urban infrastructure (e.g., medical facilities, West Yosemite Avenue), a golf course, and residential and commercial uses. For these reasons, the two project sites are not susceptible to wildland fires. The proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure HM-2.1

HM-1.1 The General Plan 2023 Safety Element of (Subsection 7.3) provides the following implementation measures to mitigate the exposure of residents to hazardous materials:

S-I-9 Require businesses that manufacture, store, use, or transport significant quantities of hazardous materials to identify annually such materials and their quantities.

S-I-10 Require the submittal of lists of hazardous materials used in existing and proposed industrial and commercial businesses within the City of Manteca. The list shall be maintained through the Manteca Fire Department and updated through periodic review.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.10 Hydrology and Water Quality *Would the project:*					
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	Less than significant impact	No	No	No	No
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;	Less than significant impact with mitigation incorporated	No	No	No	No
(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;	Less than significant impact with mitigation incorporated	No	No	No	No
(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	Less than significant impact with mitigation incorporated	No	No	No	No
(iv) impede or redirect flood flows?	Less than significant impact with mitigation incorporated	No	No	No	No
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	Less than significant impact	No	No	No	No

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
e) Conflict with or obstruct implementation of a Water Quality Control Plan or sustainable groundwater management plan?	N/A	No	No	No	No

a) Water Quality

Would the project: *Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with water quality standards. The General Plan FEIR sets forth MM HWQ-1.1 to reduce the severity of the impact by ensuring compliance with the RWQCB's regulations and standards to maintain and improve groundwater and surface water quality in the City. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project would convert an undeveloped property to a developed state, including the creation of impervious surfaces across approximately 67.6 percent of the site. However, the proposed residential project's storm drainage system would consist of five bioretention areas and incorporation of an existing retention basin along the western edge of the project site (see Exhibit 6), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment condition of the residential project site.

Furthermore, the proposed residential project would be required to prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) in accordance with applicable federal and State requirements. The SWPPP would identify Best Management Practices (BMPs) that are intended to prevent erosion during construction activity. These construction and operational features would ensure the proposed residential project would not violate water quality standards. Per MM HWQ-1.1, the proposed residential project would be required to comply with the RWQCB's regulations and standards.

Drain No. 5 serves as a regional storm drain canal, and the proposed Drain No. 5 off-site improvements, which would include converting the open canal into a 60-inch pipe would not change the canal's purpose and operation. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Groundwater

Would the project: *Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?*

The General Plan FEIR found that buildout of the General Plan would have a less than significant impact on groundwater. At the time the General Plan FEIR was published, the City was expected to receive surface water supplies from South San Joaquin Irrigation District by 2005 (the City's current water supply sources is described below). The availability of surface water would allow the City to diversify its water supply sources and reduce reliance on groundwater. However, the City continues to pump groundwater to meet the full projected demand. The General Plan FEIR concluded that the residual significance would be less than significant.

The proposed residential project consists of the development of 420 multi-family residential units. The proposed residential project would be served with potable water provided by the City. As of 2021, the City's water supply sources are groundwater (50 percent) and surface water (50 percent).[59] Furthermore, the 2015 Urban Water Management Plan (UWMP), Table 7-2: Normal Year Supply and Demand Comparison, projects that the City can meet all water demands through the year 2035 given planned growth.[60] The General Plan designates the project site for 'CMU' use and the proposed residential development is consistent with that land use designation. This indicates that the proposed residential project would also be consistent with the City's long-term water supply planning projections.

The proposed Drain No. 5 off-site improvements consist of placement of approximately 675 linear feet 60-inch pipe and approximately 896 cubic yards of fill material in an open storm drain canal, and would not require the use of potable water or groundwater (with the exception of nominal amount of irrigation water for the minimal landscaping proposed on top of the fill material). For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Drainage

Would the project: *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;

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with wind erosion. The General Plan FEIR sets forth MM GSS-3.1 to reduce the

[59] City of Manteca. Water System. Website: https://www.ci.manteca.ca.us/Engineering/Pages/Water-System.aspx. Accessed March 4, 2022.

[60] Kennedy Jenks Consultants. 2016. City of Manteca 2015 Urban Water Management Plan. July. Website: https://www.ci.manteca.ca.us/engineering/Documents/Manteca_2015_UWMP-FinalDraft.pdf. Accessed February 4, 2022.

severity of the impact by requiring all new development to comply with the UBC and requiring proposed development to develop site-specific land management and development practices, including appropriate mitigation measures for avoiding or reducing erosion. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

Grading and site preparation for the proposed residential project would create new drainage patterns by increasing impervious surfaces on the project site. However, the proposed residential project would be subject to National Pollutant Discharge Elimination System (NPDES) requirements, which include the provision that areas of 1 acre or more of disturbance shall prepare and implement a SWPPP for the prevention of runoff during construction. The proposed residential project would be required to implement erosion and sedimentation control measures, such as a SWPPP, during construction and operation. To the extent that the proposed residential project is susceptible to wind erosion, this was previously considered by the General Plan FEIR. In accordance with MM GSS-3.1, erosion control measures would be implemented to prevent sedimentation in downstream waterways.

The proposed Drain No. 5 off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not alter existing drainage pattern. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

(ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with increasing the rate of runoff in a manner that could result in flooding. The General Plan FEIR sets forth MM HWQ-3.1 to reduce the severity of the impact by discouraging large continuous paved areas, encouraging the use of pervious paving materials, such as brick or stepping stones with sand joints, and where feasible, maintaining natural stream courses and adjacent habitat. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project would convert an undeveloped property to a developed state, including the creation of impervious surfaces across approximately 67.6 percent of the site. According to the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL), the residential project site is located within an area with a 0.2 percent annual chance of flood risks.[61] However, the proposed residential project's storm drainage system would consist of five bioretention areas and incorporation of an existing retention basin along the western edge of the project site (see Exhibit 6), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment

[61] Federal Emergency Management Agency (FEMA). 2021. FEMA's National Flood Hazard Layer (NFHL) Viewer. Website: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd. Accessed February 4, 2022.

condition of the project site. Furthermore, the proposed residential project would be required to comply with MM HWQ-3.1.

The Drain No. 5 off-site improvements site is also located within an area with a 0.2 percent annual chance of flood risks.[62] However, the proposed Drain No. 5 off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not increase the rate or amount of surface runoff. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

(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;

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with additional sources of polluted runoff. The General Plan FEIR sets forth MM HWQ-4.1 to reduce the severity of the impact by utilizing cost-effective urban runoff controls, including BMPs, to limit urban pollutants from entering the water courses. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project would increase impervious surfaces on the project site to approximately 67.6 percent of the project site. However, the proposed residential project's storm drainage system would consist of five bioretention areas and incorporation of an existing retention basin along the western edge of the project site (see Exhibit 6), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment condition of the residential project site. Furthermore, per MM HWQ-4.1, the proposed residential project would be required to prepare and implement a SWPPP in accordance with applicable federal and State requirements. The SWPPP would identify BMPs that are intended to prevent runoff during construction activity.

The proposed Drain No. 5 off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not create any land uses that would create or contribute runoff water. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

(iv) impede or redirect flood flows?

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with flooding. The General Plan FEIR set forth MM HWQ-3.1 to reduce the

[62] Federal Emergency Management Agency (FEMA). 2021. FEMA's National Flood Hazard Layer (NFHL) Viewer. Website: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd. Accessed February 4, 2022.

severity of the impact by discouraging large continuous paved areas, encouraging the use of pervious paving materials, such as brick or stepping stones with sand joints, and where feasible, maintaining natural stream courses and adjacent habitat. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project would convert an undeveloped property to a developed state, including the creation of impervious surfaces across approximately 67.6 percent of the site. According to the FEMA NFHL, the residential project site is located within an area with a 0.2 percent annual chance of flood risks.[63] However, the proposed residential project's storm drainage system would consist of five bioretention areas and incorporation of an existing retention basin along the western edge of the residential project site (see Exhibit 6), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment condition of the residential project site. Furthermore, the proposed residential project would be required to comply with MM HWQ-3.1.

The Drain No. 5 off-site improvements site is also located within an area with a 0.2 percent annual chance of flood risks.[64] However, proposed off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not impede or redirect flood flows. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

d) Risk of Pollutant Release Due to Inundation

Would the project: *In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?*

The General Plan FEIR found that buildout of the General Plan would have a less than significant impact associated with inundation. It is highly unlikely that inundation from a seiche or tsunami would affect the Planning Area because the nearest body of water is the San Joaquin River, which is protected by a levee system. Therefore, the General Plan FEIR concluded that this impact would be less than significant.

According to FEMA's NFHL, both the residential project site and the Drain No. 5 off-site improvements site are not located within an area with flood risks.[65] As described above, the City, including the two project sites, is unlikely to experience inundation from a seiche or tsunami. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

[63] Federal Emergency Management Agency (FEMA). 2021. FEMA's National Flood Hazard Layer (NFHL) Viewer. Website: https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338b5529aa9cd. Accessed February 4, 2022.
[64] Ibid.
[65] Ibid.

e) Water Quality Control or Sustainable Groundwater Management Plans Consistency

Would the project: *Conflict with or obstruct implementation of a Water Quality Control Plan or sustainable groundwater management plan?*

The General Plan FEIR did not analyze General Plan consistency with a Water Quality Control or Sustainable Groundwater Management Plan. The Central Valley RWQCB published a revised Water Quality Control Plan (Basin Plan) in 2018. The City of Manteca published an UWMP in 2016. The San Joaquin County and Delta Water Quality Coalition published a Comprehensive Groundwater Management Plan in 2017.

The proposed residential project would be subject to a Municipal NPDES Permit and would ensure that adequate drainage would be provided through connection to the existing water and sanitary sewer lines as well as the bioretention treatment areas. As previously mentioned, the proposed residential project would be required to prepare and implement a SWPPP in accordance with applicable federal and State requirements. The SWPPP would identify BMPs that are intended to prevent runoff during construction activity. Furthermore, the General Plan contains several policies intended to protect groundwater supplies. Policy RC-I-3 requires large commercial water users to submit a use and conservation plan as part of the residential project entitlement review and approval process and develop a program to monitor compliance with effectiveness of that plan. The General Plan designates the residential project site for 'CMU' use and the proposed residential development is consistent with that land use designation. Therefore, the proposed residential project is considered planned growth and would not conflict with the Basin Plan, the UWMP, and the Comprehensive Groundwater Management Plan. Impacts would be less than significant.

The proposed Drain No. 5 off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not conflict with or obstruct implementation of a Water Quality Control Plan or sustainable groundwater management plan. In addition, the General Plan designates the Drain No. 5 off-site improvements site for 'P' use and the proposed drain undergrounding is consistent with that land use designation. Therefore, impacts would be less than significant.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure HWQ-1.1

HWQ-1.1 Subsection 8.6 of the Resource Conservation Element of the proposed General Plan 2023 addresses water quality. The following implementation measure should be amended (as shown below in bold) to meet water quality standards and waste discharge requirements for groundwater and surface water**:**

RC-I-24 Comply with the Regional Water Control Board's regulations and standards to maintain and improve groundwater and surface water quality in Manteca.

See FEIR Mitigation Measure GSS-3.1

General Plan FEIR Mitigation Measure HWQ-3.1

HWQ-3.1 The Safety Element (Section 7) of the General Plan 2023 addresses the issue of impervious surfaces and flooding potential. The following implementation measures are intended to reduce the amount of impervious surfaces and the subsequent flooding potential:

S-I-6 Discourage large continuous paved areas unless provided with engineered drainage facilities.

S-I-7 Where feasible, require the use of pervious paving materials, such as brick or stepping stones with sand joints.

S-I-8 New development shall be required to maintain natural stream courses and adjacent habitat and combine flood control, recreation, water quality, and open space functions.

General Plan FEIR Mitigation Measure HWQ-4.1

HWQ-4.1 The Resource Conservation Element (Section 7) of the proposed General Plan 2023 provides the following policy (P) and implementation measures to help reduce urban contaminants from polluting receiving water bodies:

RC-I-23 Utilize cost-effective urban runoff controls, including Best Management Practices (BMPs), to limit urban pollutants from entering the water courses.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.11 Land Use and Planning *Would the project:*					
a) Physically divide an established community?	Less than significant impact	No	No	No	No
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?	Less than significant impact	No	No	No	No

a) Division of an Established Community

Would the project: *Physically divide an established community?*

The General Plan FEIR found that buildout of the General Plan would have a less than significant impact on division of an established community because the General Plan promotes outward growth and preservation of existing neighborhoods. The General Plan FEIR concluded that the residual significance would be less than significant.

The residential project site is currently vacant and undeveloped, and the Drain No. 5 off-site improvements site serves as a regional storm drain canal. The surrounding area is urbanized with a golf course to the north, residential, commercial, and retail uses to the east, West Yosemite Avenue and commercial uses to the south, and medical uses to the west. The residential project would result in residential development that is compatible with the adjacent neighborhood to the east, continuing the fabric of development that is envisioned for Policy Area No. 1 by the General For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Conflict with Applicable Land Use Plans, Policies, or Regulations

Would the project: *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?*

The General Plan FEIR found that buildout of the General Plan would have a less than significant impact on conflicts with applicable land use plans because the General Plan promotes the logical and

orderly expansion of the City. The General Plan FEIR concluded that the residual significance would be less than significant.

The proposed Drain No. 5 off-site improvements would have no impact on density, FAR, height, or other development standards.

The proposed residential project would be consistent with the use, density, and height set forth in the General Plan and zoning code for this site.

The 'CMU' land use designation allows for 15.1 to 25 dwelling units per acre. The proposed residential project would construct a total of 420 multi-family residential units on 18.64 acres, which is approximately 23 units per acre. The proposed residential project would be compliant with this standard.

The 'CMU' land use designation allows for an FAR of 1.0 and a Maximum Site Coverage of 50 percent. The proposed residential project would have an FAR of 0.59 and 31.8 percent building coverage. Therefore, it would be compliant with these standards.

According to City Ordinance O2022-14, the 'CMU' zone allows for a maximum building height of 45 feet.[66] The height of the proposed multi-family residential units is 35 feet, which is within this limit. The development of the proposed residential project would not conflict with an applicable land use plan. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

[66] City of Manteca. 2022. Ordinance O2022-14. June 7. Website: https://content.qcode.us/lib/manteca_ca/alerts/documents/ordinance_o2022_14.pdf. Accessed July 21, 2022.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.12 Mineral Resources *Would the project:*					
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State?	No impact	No	No	No	No
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?	No impact	No	No	No	No

a, b) Loss of Minerals Resources of Statewide or Local Importance

Would the project: *a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the State?*

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

The General Plan FEIR addresses impacts to mineral resources in Section 1.5, Focus and Effects Found not to be Significant. There are no mineral resources of local or Statewide importance within the Planning Area. Therefore, there is no possibility of loss of mineral resources of local or Statewide importance. The General Plan FEIR concluded that no impact would occur.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.13 Noise *Would the project:*					
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?	Less than significant impact with mitigation	No	No	No	No
b) Generation of excessive groundborne vibration or groundborne noise levels?	N/A	No	No	No	No
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?	N/A	No	No	No	No

a) Noise Levels in Excess of Adopted Standards

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with noise levels in excess of adopted standards. In order to mitigate potential impacts, the General Plan FEIR set forth Policies N-P-2, N-P-3, N-P-4, N-P-5, N-P-6, N-P-7, N-P-8, N-P-10, N-P-11, N-P-12, N-P-13, N-I-1, N-I-8, and N-I-14 which would require new noise-sensitive development in noise-impacted areas to incorporate effective mitigation measures into the project design, stationary noise sources proposed adjacent to noise-sensitive uses to be mitigated, development in noise-sensitive land use conduct an acoustical analysis as part of the environmental review process, City enforcement of Sound Transmission Control Standards of the CBC concerning the construction of new multiple occupancy dwellings, Manteca Police Department enforcement of requirements of the California Vehicle Code relating to vehicle mufflers and modified exhaust systems, and more. These policies identify the need to mitigate construction noise on a site-specific and project-specific basis and would reduce impacts related to construction noise. These policies also include mobile and stationary source operational noise thresholds that projects must meet. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project consists of the development of 420 multi-family residential units on the residential project site. The General Plan designates the residential project site for 'Commercial Mixed Use (CMU)' and the proposed multi-family residential development is consistent with that

land use designation. The proposed Drain No. 5 off-site improvements consists of installation of approximately 675 linear feet of a 60-inch pipe and placement of approximately 896 cubic yards of fill material. Its site has the land use designation of 'P,' and the proposed drain undergrounding is consistent with that land use designation. In addition, potential noise impacts associated with the construction and operation of the two projects was previously considered by the General Plan FEIR. In accordance with General Plan 2023 Policy N-I-14, the proposed residential project would incorporate noise attenuation measures. For these reasons, the proposed residential project and the proposed Drain No. 5 off-stie improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

Short-term Construction Impacts

Construction-related Traffic Noise

Noise impacts from construction activities associated with the proposed residential project would be a function of the noise generated by construction equipment, equipment location, sensitivity of nearby land uses, and the timing and duration of the construction activities. One type of short-term noise impact that could occur during proposed residential project construction would result from the increase in traffic flow on local streets, associated with the transport of workers, equipment, and materials to and from the residential project site. The transport of workers and construction equipment and materials to the residential project site would incrementally increase noise levels on access roads leading to the site. Because workers and construction equipment would use existing routes, noise from passing trucks would be similar to existing vehicle-generated noise on these local roadways. Proposed residential project-related construction trips would not be expected to double the hourly traffic volumes along any roadway segment in the residential project vicinity. For this reason, short-term intermittent noise from construction trips would be minor when averaged over an hour or longer time would not result in a perceptible increase in hourly or daily average traffic noise levels in the residential project vicinity, and the impact would be less than significant.

Therefore, the proposed residential project would not result in any peculiar effects and would not result in new or more severe impacts related to short-term construction-related noise impacts associated with the transportation of workers and equipment to the residential project site beyond what was previously analyzed in the General Plan FEIR.

Construction Equipment Operational Noise

The second type of short-term noise impact is related to noise generated during construction on the residential project site. Construction is completed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. These various sequential phases would change the character of the noise generated on the residential site and, therefore, the noise levels surrounding the residential site as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings. Impact equipment such as pile drivers are not expected to be used during construction of the proposed residential project.

The site preparation phase of the residential project site, which includes excavation and grading of the site, tends to generate the highest noise levels because the noisiest construction equipment is earthmoving equipment. Earthmoving equipment includes excavating machinery and compacting equipment, such as bulldozers, draglines, backhoes, front loaders, roller compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 or 4 minutes at lower power settings.

Construction of the proposed residential project is expected to require the use of scrapers, bulldozers, water trucks, haul trucks, and pickup trucks. Based on Federal Highway Administration's Highway Construction Noise Handbook,[67] the maximum noise level (L_{max}) generated by each scraper is assumed to be 85 A-weighted decibel (dBA) L_{max} at 50 feet from this equipment. Each bulldozer would also generate 85 dBA L_{max} at 50 feet. The maximum noise level generated by graders is approximately 85 dBA L_{max} at 50 feet. A characteristic of sound is that each doubling of sound sources with equal strength increases a sound level by 3 dBA. Assuming that each piece of construction equipment operates at some distance from the other equipment, a reasonable worst-case combined noise level during this phase of construction would be 90 dBA L_{max} at a distance of 50 feet from the acoustic center of a construction area. This would result in a reasonable worst-case hourly average of an equivalent noise level (L_{eq}) of 86 dBA L_{eq}. The effect on sensitive receptors is evaluated below.

The closest residential receptors to the residential project site are the multi-family residences located east of the residential project site on West Center Street and Trevino Avenue. The closest outdoor common area for these residences is located approximately 140 feet from the residential project property line. In addition, there is an existing wooden fence along the eastern residential project property line. At this distance and with the shielding provided by the existing fence, outdoor common area may be exposed to relative worst-case hourly average noise levels of 52 dBA L_{eq} when construction activities occur at the portion of the project site nearest these homes. When averaged over a 24-hour period, the resulting day-night noise level (L_{dn}) would be 50 dBA L_{dn}. The calculation spreadsheet with the detailed modeling assumptions is included in Appendix F.

These noise levels would not exceed the City's noise performance standard of 60 dBA L_{dn} for mobile noise sources as measured at the nearest outdoor common use area of the multi-family complex which is located 140 feet east of the residential project property line. In addition, the proposed residential project would comply with Mitigation Measure (MM) N-2.1 of the General Plan FEIR which requires compliance with the City's noise performance standard for stationary noise sources. Therefore, construction mobile equipment operations at the residential project site would not result in a significant impact, and construction stationary equipment operations would be reduced to less than significant with implementation of MM N-2.1 of the General Plan FEIR.

Proposed Drain No. 5 Off-site Improvements

The proposed Drain No. 5 off-site improvements would include the placement of a 60-inch pipe, approximately 675-feet long, into the canal, and then the canal would be backfilled with approximately 896 cubic yards of fill material. The loudest construction equipment required for these improvements would be a backhoe. Reasonable worst-case noise levels during construction

[67] Federal Highway Administration (FHWA). 2006. Highway Construction Noise Handbook. August.

would be expected to range up to be less than 52 dBA L_{eq} as measured at the outdoor common area of the nearest residential land uses. When averaged over a 24-hour period, the resulting day-night noise level (L_{dn}) would be less than 50 dBA L_{dn}. Therefore, similar to the noise impacts from construction activities on the residential project site, the construction noise levels associated with the proposed Drain No. 5 off-site improvements would be reduced to less than significant with implementation of MM N-2.1 of the General Plan FEIR.

Therefore, the proposed residential project as well as the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to temporary construction noise beyond what was previously analyzed in the General Plan FEIR.

Mobile Source Operational Noise Impacts

A significant impact would occur if project-generated traffic would result in a substantial permanent increase in ambient noise levels in excess of standards established in the local general plan or noise ordinance. The City's General Plan Noise Element establishes maximum allowable noise exposure thresholds for mobile noise sources according to types of receiving land uses. However, the City has not established any such threshold for commercial land uses, such as this proposed project. Therefore, for purposes of this analysis, a significant impact would occur where existing traffic noise levels are less than 60 dBA L_{dn} and project-related traffic would result in a +5 dBA increase in the roadway noise levels. Also, where existing traffic noise levels range between 60 dBA and 65 dBA L_{dn}, a +3 dBA increase in roadway noise levels will be considered significant. Finally, where existing traffic noise levels are greater than 65 dBA L_{dn}, a +1.5 dBA increase in roadway noise levels will be considered significant.

The FHWA highway traffic noise prediction model (FHWA RD-77-108) was used to evaluate existing and future traffic noise conditions in the vicinity of the project site. The projected traffic noise levels along roadways adjacent to the project site were analyzed to determine compliance with the City's land use compatibility standards. The daily traffic volumes were obtained from the traffic analysis prepared for the proposed residential project by Kittelson & Associates.[68] The resultant noise levels were weighed and summed over a 24-hour period in order to determine the L_{dn} values. The traffic noise modeling input and output files are included in Appendix F of this document. Table 18 shows a summary of the traffic noise levels for Existing, Existing Plus Project, Cumulative, and Cumulative Plus Project conditions as measured at 50 feet from the centerline of the outermost travel lane.

[68] Kittelson & Associates. 2022. Prose Manteca Transportation Impact Analysis, Manteca, CA. April 1.

Table 18: Traffic Noise Model Results Summary

Roadway Segment	L_{dn} (dBA) 50 feet from Centerline of Outermost Lane					
	Existing (dBA) L_{dn}	Existing Plus Project (dBA) L_{dn}	Increase Over Existing (dBA)	Cumulative (dBA) L_{dn}	Cumulative Plus Project (dBA) L_{dn}	Increase Over Cumulative (dBA)
West Yosemite Avenue–Airport Way to Winters Drive	66.9	67.2	0.3	68.6	68.8	0.2
West Yosemite Avenue–Winters Drive to North Union Road	67.6	67.7	0.1	69.1	69.2	0.1

Notes:
dBA = A-weighted decibel
L_{dn} = day/night average sound level
Modeling results do not take into account mitigating features such as topography, vegetative screening, fencing, building design, or structure screening. Rather it assumes a worst-case of having a direct line of sight on flat terrain.
Source: FirstCarbon Solutions (FCS). 2022.

As shown in Table 18, above, the highest traffic noise level increase with implementation of the proposed residential project would occur along West Yosemite Avenue between Airport Way and Winters Drive, under Existing Plus Project conditions. The modeling results show that traffic noise levels without the project would range up to 67.2 dBA L_{dn} as measured at 50 feet from the centerline of the outermost travel lane along this roadway segment. Since existing noise levels are greater than 65 dBA L_{dn}, a +1.5 dBA increase in roadway noise levels will be considered significant. The proposed residential project traffic along this roadway segment would result in up to a 0.3 dBA increase in traffic noise levels compared to traffic noise levels without the proposed residential project. Therefore, this increase would be less than significant. Therefore, residential project-related traffic would not result in a substantial permanent increase in noise levels, and the impact would be less than significant.

Therefore, the proposed residential project would not result in any peculiar effects and would not result in new or more severe impacts related to mechanical equipment operation noise impacts beyond what was previously analyzed in the General Plan FEIR.

Proposed Drain No. 5 Off-site Improvements

No mobile noise operational noise sources would be associated with the proposed Drain No. 5 off-site improvements. Therefore, implementation of these off-site improvements would not result in any substantial permanent increase in noise levels in excess of established standards, and there would be no impact.

Operational/Stationary Source Noise Impacts

A significant impact would occur if operational noise levels generated by stationary noise sources at the proposed residential project site would result in a substantial permanent increase in ambient noise levels in excess of any of the noise performance thresholds established in the City's Noise

Element. The City's General Plan Noise Element establishes an exterior noise limit for stationary noise sources of 50 dBA L_{eq} and 70 dBA L_{max} between the hours of 7:00 a.m. and 10 p.m. and 45 dBA L_{eq} and 65 dBA L_{max} between the hours of 10:00 p.m. and 7:00 a.m. as measured at receiving noise-sensitive land uses.

Mechanical Equipment Operations

At the time of this analysis, details were not available pertaining to proposed ground-floor mechanical ventilation systems for the proposed residential project; therefore, a reference noise level for typical mechanical ventilation systems was used. Noise levels from typical residential mechanical ventilation equipment range from 60 dBA to 70 dBA L_{eq} at a distance of approximately 3 feet.

The nearest sensitive receptor to proposed ground-floor mechanical ventilation systems is the multi-family residence located at the northwest corner of the apartment complex at West Center Street and Trevino Avenue. Proposed ground-floor mechanical ventilation systems could be located as close as 35 feet from these nearest sensitive receptors. The proposed residential project will include construction of a 6-feet wooden fence along the residential project's eastern boundary. At this distance and assuming minima shielding by the proposed wooden fence, noise generated by proposed mechanical ventilation equipment would attenuate to 41 dBA L_{eq}. These operational noise levels would not exceed the City's most restrictive nighttime noise performance threshold of 45 dBA L_{eq} as measured at the nearest sensitive receptor. The calculation spreadsheet is included in Appendix F. Therefore, proposed mechanical ventilation system operational noise levels would not result in a substantial permanent increase in noise levels in excess of established standards. The impact of mechanical ventilation equipment operational noise levels on off-site sensitive receptors would be less than significant.

Therefore, the proposed residential project would not result in any peculiar effects and would not result in new or more severe impacts related to mechanical equipment operation noise impacts beyond what was previously analyzed in the General Plan FEIR.

Parking Lot Activities

Typical parking lot activities include people conversing, doors shutting, and vehicles idling which generate noise levels ranging from approximately 60 dBA to 70 dBA L_{max} at 25 feet. These activities are expected to occur sporadically throughout the day, as visitors and staff arrive and leave parking lot areas at the residential project site.

The nearest sensitive receptor to the proposed residential parking is the multi-family residence located east of the residential project site. The receptors would be located approximately 35 feet from the nearest acoustic center of parking lot activities at the residential project site. In addition, there is an existing wooden fence along the eastern residential project property line. At this distance and with shielding reduction of the wooden fence, reasonable worst-case hourly average noise levels associated with daily parking lot activities would attenuate to below 53 dBA L_{eq} at these nearest sensitive receptors. The calculation spreadsheet with the detailed modeling assumptions is included in Appendix F. These reasonable worst-case hourly average parking lot activity noise levels would not exceed the City's daytime noise performance threshold of 60 dBA L_{eq} as measured at the nearest

sensitive receptors. In addition, these parking lot activities would not occur, except for random occasions, during the nighttime hours. Therefore, proposed residential parking lot activity noise levels would not result in a substantial permanent increase in noise levels in excess of established standards, and the impact on off-site sensitive receptors would be less than significant. Therefore, the proposed residential project would not result in any peculiar effects and would not result in new impacts related to stationary operation noise impacts beyond what was previously analyzed in the General Plan FEIR

Proposed Drain No. 5 Off-site Improvements

No stationary noise operational noise sources would be associated with the proposed Drain No. 5 off-site improvements. Therefore, implementation of these off-site improvements would not result in any substantial permanent increase in noise levels in excess of established standards, and there would be no impact.

Therefore, the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new impacts related to stationary operation noise impacts beyond what was previously analyzed in the General Plan FEIR.

b) Groundborne Vibration

The General Plan FEIR did not address exposure of persons to groundborne vibration from either construction or operational activities. Groundborne vibration is a highly localized phenomenon and conventional construction building practices serve to mitigate any adverse impacts. Impacts would be less than significant. Because the General Plan FEIR did not evaluate impacts at the project level, the following analysis provides an evaluation of potential project-level impacts with respect to groundborne vibration.

Short-term Vibration Impacts

A significant impact would occur if the proposed residential project would generate groundborne vibration or groundborne noise levels in excess of established standards. The City has not adopted criteria for groundborne vibration impacts. Therefore, for purposes of this analysis, the Federal Transit Administration (FTA) vibration impact criteria are utilized. The FTA has established industry accepted standards for vibration impact criteria and impact assessment. These guidelines are published in its Transit Noise and Vibration Impact Assessment Manual.[69]

Of the variety of equipment used during construction, the small vibratory rollers that are anticipated to be used in the site preparation phase of construction would produce the greatest groundborne vibration levels. Small vibratory rollers produce groundborne vibration levels ranging up to 0.101 inch per second (in/sec) peak particle velocity (PPV) at 25 feet from the operating equipment.

[69] Federal Transit Administration (FTA). 2018. Transit Noise and Vibration Impact Assessment Manual. Website: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf. Accessed April 1, 2022.

The nearest off-site structure to the proposed residential project construction footprint where the heaviest construction equipment would operate is a veterinary hospital bordering the eastern boundary of the proposed residential project. The façade of these buildings would be located approximately 25 feet from the nearest construction footprint where the heaviest construction equipment would potentially operate. At this distance, groundborne vibration levels would range up to 0.101 in/sec PPV from operation of the types of equipment that would produce the highest vibration levels. This is below the FTA Construction Vibration Impact Criteria of 0.2 in/sec PPV for buildings of engineered wood-framed construction. Therefore, the proposed residential project construction activities would not generate groundborne vibration levels in excess of established standards.

Proposed Drain No. 5 Off-site Improvements

Construction activities related to the proposed Drain No. 5 off-site improvements would involve the operation of backhoe and similar smaller construction equipment. The nearest existing structure to the proposed Drain No. 5 off-site improvement area is the residential structure located approximately 45-feet southeast of the boundary of this off-site improvement area. At this distance, groundborne vibration levels would range up to 0.02 in/sec PPV from operation of the types of equipment that would produce the highest vibration levels. This is well below the FTA Construction Vibration Impact Criteria of 0.2 in/sec PPV for buildings of engineered wood-framed construction. Therefore, the proposed Drain No. 5 off-site improvements construction activities would not generate groundborne vibration levels in excess of established standards.

Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or severe impacts related to short-term groundborne vibration associated with construction to off-site receptors disclosed in the General Plan FEIR.

Operational Vibration Impacts

Implementation of the proposed residential project and the proposed Drain No. 5 off-site improvements would not include any permanent sources of vibration that would expose persons in the project vicinity to groundborne vibration levels that could be perceptible without instruments at any existing sensitive land use in the vicinity of the project site. Additionally, there are no active sources of groundborne vibration in the two projects vicinity that would produce vibration levels that would be perceptible without instruments within the project site. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not generate groundborne vibration or groundborne noise levels in excess of established standards and there would be no impact related to operational groundborne vibration.

Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts related to short-term groundborne vibration or operational groundborne vibration disclosed in the General Plan FEIR.

c) Airport or Private Airstrip Noise

The General Plan FEIR did not address exposure of persons to aviation noise, but the General Plan Planning Area does fall within the Stockton Metropolitan Airport Influence Area.

The Stockton Metropolitan Airport is approximately 6 mile north of the two projects sites. At this distance, the residential project site and the Drain No. 5 off-site improvements site are located outside of the 55 dBA Community Noise Equivalent Level (CNEL) airport noise contours. The two projects sites are not located within the vicinity of a private airstrip. Therefore, implementation of the proposed residential project and the proposed Drain No. 5 off-site improvements would not expose persons residing or working in the two projects vicinity to noise levels from airport activity that would be in excess of normally acceptable standards for the proposed land use development, and no impact would occur.

Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in any peculiar effects and would not result in new or more severe impacts disclosed in the General Plan FEIR.

Applicable General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure N-1.1

N-1.1 The General Plan 2023 Noise Element (Section 9) provides the following policies to mitigate the effects of increased noise levels in excess of established standards:

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 19 below].

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 20 below].

N-P-4 The City shall require stationary noise sources proposed adjacent to noise-sensitive uses to be mitigated so as to not exceed the noise level performance standards in Table 9-2 [Table 20 below].

N-P-6 Where the development of residential or other noise-sensitive land use is proposed for a noise-impacted area, 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 9-1 [Table 19 below] or Table 9-2 [Table 20 below], 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.
- Describe a post-project assessment program that could be used to monitor the effectiveness of the proposed mitigation measures.

N-P-8 The City shall 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.

N-P-10 The Manteca Police Department shall actively enforce requirements of the California Vehicle Code relating to vehicle mufflers and modified exhaust systems.

General Plan FEIR Mitigation Measure N-2.1

N-2.1 The General Plan 2023 Noise Element (Section 9) provides the following policy to mitigate the levels of construction noise on ambient noise levels throughout the General Plan Study Area.

N-P-5 In accord with Table 9-2 [Table 20 below] standards from the General Plan, the City shall regulate construction-related noise impacts on adjacent uses.

General Plan FEIR Mitigation Measure N-5.1

MM N-5.1 The Noise Element of the General Plan 2023 (Section 9) provides the following Policies (P) and Implementation Measures (I) to mitigate the noise levels from industrial/commercial, emergency, and outdoor activities throughout the General Plan 2023 Study Area:

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 19 below].

N-P-4 The City shall require stationary noise sources proposed adjacent to noise-sensitive uses to be mitigated so as to not exceed the noise level performance standards in Table 9-2 in the General Plan [Table 20 below].

N-P-7 Noise level criteria applied to land uses other than residential or other noise-sensitive uses shall be consistent with noise performance levels of Table 9-1 [Table 19 below] and Table 9-2 [Table 20 below] in the General Plan.

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-14 Control noise at the source through use of insulation, berms, building design and orientation, buffer space, staggered operating hours and other techniques. Use insulation, berms, building design and orientation, buffer space, noise barriers, and other techniques to attenuate noise to acceptable levels.

Table 19: Maximum Allowable Noise Exposure–Mobile Noise Sources

Land Use[4]	Outdoor Activity Areas[1]	Interior Spaces	
		L_{dn}/CNEL, dB	L_{eq}, dB[3]
Residential	60[2]	45	–
Transient Lodging	60[2]	45	–
Hospitals, Nursing Homes	60[2]	45	–
Theaters, Auditoriums, Music Halls	–	–	35
Churches, Music Halls	60[2]	–	40
Office Buildings	65	–	45
Schools, Libraries, Museums	–	–	45
Playgrounds, Neighborhood Parks	70	–	–

Notes:
CNEL = Community Noise Equivalent Level
dB = decibel
L_{dn} = day/night average sound level
[1] Outdoor activity areas for residential development are considered backyards, patios areas, or decks of single-family dwellings, and the patios, balconies, or common areas where people generally congregate for multi-family developments. Outdoor activity areas for nonresidential developments are considered those common areas where people generally congregate, including pedestrian plazas, seating areas, and outside lunch facilities. Where the location

Land Use[4]	Outdoor Activity Areas[1]	Interior Spaces	
		L_{dn}/CNEL, dB	L_{eq}, dB[3]
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 feasible 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. 2003. City of Manteca General Plan 2023. October 6.			

Table 20: Performance Standards for Stationary Noise Sources or Projects Affected by Stationary Noise Sources

Noise Level Descriptor	Daytime (7:00 a.m. to 10:00 p.m.)	Nighttime (10:00 p.m. to 7:00 a.m.)
Hourly L_{eq}, dB	60	45
Maximum Level, dB	60	45
Notes: dB = decibel L_{dn} = day/night average sound level 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 by residents to be particularly annoying and area 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. 2003. City of Manteca General Plan 2023. October 6.		

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.14 Population and Housing *Would the project:*					
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	Significant unavoidable impact	No	No	No	No
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	Less than significant impact with mitigation	No	No	No	No

a) Growth Inducement

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

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact related to substantial population growth in the City. The General Plan FEIR determined that no feasible mitigation was available to reduce the severity of the impact. Thus, the General Plan FEIR concluded that the residual significance would be significant and unavoidable.

The residential project site is currently vacant and does not contain residential units. The average number of persons per household in the City is 3.18, according to the CDF. [70] Therefore, the proposed 420 multi-family residential units can be expected to increase the population of the City approximately 1,336 persons. As of 2021, the CDF estimated that the population in the City was 87,319.[71] The City of Manteca 2015-2023 Housing Element projected that the City's population would be 97,410 persons in the year 2025.[72] Therefore, the projected increase in population resulting from the proposed residential project can be considered planned growth. To the extent that the residential project induces population growth, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not include residential

[70] California Department of Finance (CDF). May 2021. E-5 Population and Housing Estimates for Cities, Counties, and the State 2011-2021 with 2010 Census Benchmark. Website: https://www.dof.ca.gov/Forecasting/Demographics/Estimates/e-5/. Accessed February 9, 2022.

[71] Ibid.

[72] City of Manteca. 2016. 2015-2023 Housing Element. January 19. Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Planning%20Division/Planning%20Division%20Documents/General%20Plan/General%20Plan%20Housing%20Element%20Adopted%20January%2019%202016.pdf. Accessed February 9, 2022.

units and would not contribute to population growth. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Displacement of Persons or Housing

Would the project: *Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?*

The General Plan FEIR did not analyze displacement of existing people or housing.

The residential project site is currently vacant, and the Drain No. 5 off-site improvements site serves as a regional storm drain. Neither site contains any residential units, precluding the potential for removal of any existing units. Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.15 Public Services *Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:*					
a) Fire protection?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Police protection?	Less than significant impact with mitigation incorporated	No	No	No	No
c) Schools?	Less than significant impact with mitigation incorporated	No	No	No	No
d) Parks?	Less than significant impact with mitigation incorporated	No	No	No	No
e) Other public facilities?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Fire Protection

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: Fire protection?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with fire protection, because growth resulting from the plan would result in the need for expanded fire protection services. The General Plan FEIR set forth MM PFS-6.1 to reduce the severity of the impact by the City maintaining an overall fire insurance rating of 4 or better, the City's ensuring adequate staffing and station locations to maintain the minimum feasible response time to fire and emergency calls, the City establishing criteria for determining the circumstances under which fire service will be enhanced, the Fire Department continuously monitoring response times and reporting annually on the results of the monitoring, and the City reviewing proposed residential. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project would be served by the City of Manteca Fire Department. The closest fire station to the residential project site is Station 242, which is located approximately 1.3 miles southeast of the residential project site at 1154 South Union Road. The Fire Prevention Division reviews development project plans for compliance with the applicable fire and life safety regulations, codes, and ordinances.[73] The Fire Department conducted its initial review of the proposed residential project and identified items to be implemented.[74] With implementation of these Fire Department's requirements, the proposed residential project's site plan would be deemed acceptable for fire safety purposes.

The proposed residential project consists of the development of 420 multi-family residential units on the residential project site. As described in Section 4.14, Population and Housing, this would increase the population of the City by an estimated 1,336 persons, which is considered planned growth since the General Plan FEIR already evaluated development consistent with the CMU designation and the proposed residential project is consistent with that land use designation. Therefore, to the extent that the development of 420 residential units would increase demand for fire protection such that new facilities would be required, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not create any land uses that would increase the demand for fire protection services and facilities. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Police Protection

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*

[73] City of Manteca. Fire Prevention Division. Website: https://www.ci.manteca.ca.us/Fire/Pages/Fire-Prevention-Division.aspx. Access February 9, 2022.

[74] City of Manteca Community Development Department. 2021. Comment Letter for Preliminary Staff Review – Prose Manteca – 1563 and 1625 West Yosemite Avenue – PST 21-156. December 9.

times or other performance objectives for any of the public services: Police protection?

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with police protection. The General Plan FEIR set forth MM PFS-6.1 to reduce the severity of the impact by the City's adequate staffing and patrol arrangements to maintain the minimum feasible police response time to police calls, the City providing police services to serve the existing and projected population, the City establishing criteria for determining the circumstances under which police service will be enhanced, the Police Department continuously monitoring response times and reporting annually on the results of the monitoring, and the City reviewing proposed residential developments to evaluate the accessibility for police patrols and emergency response. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The residential project site would be served by the City of Manteca Police Department. The proposed residential project consists of the development of 420 multi-family residential units on the residential project site. As described in Section 4.14 Population and Housing, this would increase the population of the City by an estimated 1,336 persons, which is considered planned growth since the General Plan FEIR already evaluated development consistent with the CMU designation and the proposed residential project is consistent with that land use designation. Therefore, to the extent that the development of the proposed residential project increases demand for police protection such that new facilities would be required, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not create any land uses that would increase the demand for police protection services and facilities. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Schools

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: Schools?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with schools. The General Plan FEIR set forth MM PFS-6.1 to reduce the severity of the impact by ensuring City support to the Manteca Unified School District (MUSD) such as locating and reserving appropriate sites for new schools, collecting school facility development fees from new development, financing new school facilities, identifying opportunities for reducing the cost of land for school facilities, and more. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The residential project site would be served by Stella Brockman Elementary School (serving Kindergarten through eighth grade) and by Sierra High School in the MUSD. The proposed residential

project consists of the development of 420 multi-family residential units on the residential project site. As described in Section 4.14, Population and Housing, this would increase the population of the City by an estimated 1,336 persons. The MUSD Fall 2020/2021 Report stated that it had 21,720 students enrolled, while its capacity was 29,034 students.[75] This report anticipated that the MUSD would have 23,648.5 students by 2023 and 23,505.8 students by 2025,[76] well within its stated capacity. Therefore, the MUSD has already planned for the increased student enrollment that could result from the proposed residential project. Furthermore, the General Plan designates the residential project site for 'CMU' use and, thus, the proposed residential project is consistent with that land use designation. Lastly, pursuant to Senate Bill (SB) 50 and General Plan MM PFS-6.1, developers of new residential developments are required to pay a certain rate per square foot of development to the MUSD in order to offset costs of additional students,[77] and Pursuant to Government Code Section 65995, payment of adopted development fees is considered "full and complete mitigation" for impacts to school facilities, and local governments are prohibited from assessing additional fees or exactions for school impacts. The proposed Drain No. 5 off-site improvements would not create any land uses that would increase the demand for school facilities. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

d, e) Parks and Other 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: Parks? Other public services?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with parks and other public facilities. The General Plan FEIR set forth MM PFS-6.1 to reduce the severity of the impact by establishing and maintaining a park system and recreation facilities that support economic development in the City and that are suited to the needs of City residents and visitors, establishing recreational programs for City residents, providing a network of pedestrian and bicycle routes, expanding the community and neighborhood park system, maintaining acquisition efforts based on a goal of 5 acres of developed neighborhood and community parkland per 1,000 residents within the city limits, and more. The General Plan FEIR

[75] Manteca Unified School District (MUSD). 2021. Fall 2020/2021 Report, Student Population Projections Fall 2020 – Fall 2030 By Residence. April 29. Website: https://www.mantecausd.net/site/handlers/filedownload.ashx?moduleinstanceid=2189&dataid=15083&FileName=Davis%20Demo%20Final%20-%20Fall%202020-2021.pdf. Accessed February 9, 2022.

[76] Ibid.

[77] Manteca Unified School District (MUSD). Developer Free FAQ – General Information. Website: https://www.mantecausd.net/cms/lib/CA50000459/Centricity/Domain/477/MUSD%20Developer%20Fee%20FAQ%202020.pdf. Accessed February 15, 2022.

concluded that the residual significance would be less than significant after implementation of mitigation.

The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Per the Quimby Act, 3 acres of parks are required per 1,000 residents. However, Policy PF-P-49 in the General Plan sets a goal of 5 park acres per 1,000 residents. In 2016, the Manteca Parks and Recreation Department published the Parks and Recreation Master Plan.[78] The City manages approximately 483 acres of parks, facilities, trails and recreation lands, which is the equivalent of 6.63 acres per 1,000 residents, meaning the City has already exceeded its goal.

As described in Section 4.14, Population and Housing, the proposed residential project would increase the population of the City by an estimated 1,336 persons. This population growth would change the number of park acres per 1,000 residents ratio to 6.5 park acres per 1,000 residents, which would still surpass the City's goal. Furthermore, the proposed residential project would include 170,000 square feet (or 3.9 acres) of common open space, a community building with a pool, and landscaping. While the proposed residential project would increase the use of existing neighborhood and regional parks or other recreational facilities, the City already has more than adequate park acres to support its residents. In addition, the proposed residential project would comply with all applicable City policies and fees, including the park acquisitions and improvement policy and fees as required by the City. The proposed Drain No. 5 off-site improvements would not create any land uses that would increase the demand neighborhood and regional parks or other recreational facilities. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

[78] City of Manteca Parks and Recreation Department. 2016. Parks and Recreation Master Plan. December 6. Website: https://www.ci.manteca.ca.us/parks/Documents/ParksMasterPlan.pdf. Accessed February 9, 2022.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.16 Recreation *Would the project:*					
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?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	Less than significant impact with mitigation incorporated	No	No	No	No

a, b) Existing Neighborhood and Regional Parks and Recreational Facilities

Would the project: *a) 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; or*

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

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with parks and recreational facilities. The General Plan FEIR set forth MM PFS-6.1 to reduce the severity of the impact by establishing and maintaining a park system and recreation facilities that support economic development in the City and that are suited to the needs of City residents and visitors, establishing recreational programs for City residents, providing a network of pedestrian and bicycle routes, expanding the community and neighborhood park system, maintaining acquisition efforts based on a goal of 5 acres of developed neighborhood and community parkland per 1,000 residents within the city limits, and more. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Per the Quimby Act, 3 acres of parks are required per 1,000 residents. However, Policy PF-P-49 in the General Plan sets a goal of 5 park acres per 1,000 residents. In 2016, the Manteca Parks and Recreation Department published

the Parks and Recreation Master Plan.[79] The City manages approximately 483 acres of parks, facilities, trails and recreation lands, which is the equivalent of 6.63 acres per 1,000 residents, meaning the City has already exceeded its goal. As described in Section 4.14, Population and Housing, the proposed residential project would increase the population of the City by an estimated 1,336 persons. This population growth would change the number of park acres per 1,000 residents ratio to 6.5 park acres per 1,000 residents, which would still surpass the City's goal. Furthermore, the proposed residential project would include 170,000 square feet (or 3.9 acres) of common open space, a community building with a pool, and landscaping. While the proposed residential project would increase the use of existing neighborhood and regional parks or other recreational facilities, the City already has more than adequate park acres to support its residents. Therefore, this increase in use of parks would not result in substantial physical deterioration of the facilities and would not require the construction of new facilities. The proposed Drain No. 5 off-site improvements would not create any land uses that would increase the demand neighborhood and regional parks or other recreational facilities or expansion of such facilities. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

[79] City of Manteca Parks and Recreation Department. 2016. Parks and Recreation Master Plan. December 6. Website: https://www.ci.manteca.ca.us/parks/Documents/ParksMasterPlan.pdf. Accessed February 9, 2022.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.17 Transportation *Would the project:*					
a) Conflict with a program plan, ordinance or policy of the circulation system, including transit, roadway, bicycle and pedestrian facilities?	Less than significant impact with mitigation incorporated	No	No	No	No
b) Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?	N/A	No	No	No	No
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	N/A	No	No	No	No
d) Result in inadequate emergency access?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Congestion Management Plan

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

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with circulation. The General Plan FEIR set forth Policies C-P-1, C-P-2, C-P-33, C-P-49, C-P-52, and C-I-15 to reduce the severity of the impact by the City striving to attain the highest possible traffic Level of Service (LOS) consistent with the financial resources available and the limits of technical feasibility; aiming for LOS of C or better, and a minimum of LOS D at any individual location; establishing a safe and convenient network of identified bicycle routes connecting residential areas with recreation, shopping, and employment areas within the City; encouraging the use of local transportation services, such as jitneys, local shuttles and commuter buses; promoting the development of park-and-ride facilities near I-5, SR-120, and SR-99; and establishing a requirement for a transportation demand management program in any business park, industrial or commercial land use that employs more than 50 full-time equivalent employees. The General Plan

FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project consists of the development of 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings. The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Modifications to the residential project site frontage features (sidewalk, curb, gutter, and class 2 bike lane), off-site improvements to the intersection of Yosemite Avenue and Winters Drive, and design and development of the Center Street extension through the residential project site would be consistent with City plans, codes, and regulations and would meet local design requirements. In addition, the proposed residential project is not anticipated to conflict with other road, transit, bicycle, or pedestrian plans documented by the City. The proposed Drain No. 5 off-site improvements would not create land uses that would result in a conflict with road, transit, bicycle, or pedestrian plans documented by the City. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR. No additional analysis is required.

b) Inconsistent with CEQA Guidelines Section 15064.3

Would the project: *Would the project conflict or be inconsistent with CEQA Guidelines Section 15064.3, subdivision (b)?*

The General Plan FEIR did not address VMT.

VMT analysis prepared by Kittelson & Associates in April 2022 (see Appendix G) concluded that the proposed residential project VMT per household would be 40 percent lower than the City baseline VMT per household, which is below the 15 percent VMT impact threshold recommended by the State of California. Therefore, the proposed residential project would have a less than significant impact related to VMT.[80] The proposed Drain No. 5 off-site improvements would not create land uses that would generate VMT. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR. No additional analysis is required.

c) Roadway Safety Hazards

Would the project: *Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?*

The General Plan FEIR did not address roadway safety hazards.

The proposed residential project would provide access via two points: the extension of West Center Street through the project site and a signalized driveway along West Yosemite Avenue at the intersection of Winters Drive. The proposed access points would be reviewed by the City's traffic engineer to ensure compliance with the City's design guidelines for safety, and therefore are not

[80] Kittelson & Associates, Inc. 2022. Prose Manteca Transportation Impact Analysis, Manteca, CA. April 1.

anticipated to introduce hazardous geometric design features. The City Fire Department conducted preliminary review and provided directions for the driveway entrances.[81] Compliance with these requirements would ensure that hazardous geometric design features are not included in the proposed residential project design. The relatively straight and level alignment of West Center Street and West Yosemite Avenue near the proposed access points would not introduce inadequate sight distance.[82]

In addition, the proposed roadway geometries/cross-sections and design features were reviewed as part of the City Engineering Division site plan review to confirm that proposed designs are consistent with the local code and design standards and to confirm that design features (such as trees, fountains, on-street parking, etc.) do not limit site distance, and the internal project streets would be designed to meet the City's geometric design standards and not create hazardous driving conditions.[83] The City Engineering Division made no comments regarding roadways.[84]

The proposed Drain No. 5 off-site improvements would not include roadways and would, therefore, not increase hazards due to a geometric design feature or incompatible uses.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR. No additional analysis is required.

d) Emergency Access

Would the project: *Result in inadequate emergency access?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with emergency response and evacuation. The General Plan FEIR set forth Policies S-P-18, S-I-14, and S-I-15 to reduce the severity of the impact by the City maintaining and periodically updating its Emergency Plan, conducting periodic emergency response exercises to test the effectiveness of City emergency response procedures, and establishing a requirement for a transportation demand management program in any business park, industrial or commercial land use that employs more than 50 full-time equivalent employees. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The proposed residential project consists of the development of 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings. The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. The proposed residential project would provide one access point on West Yosemite Avenue and one on the West Center Street extension, consistent with California Fire Code

[81] City of Manteca Community Development Department. 2021. Comment Letter for Preliminary Staff Review – Prose Manteca – 1563 and 1625 West Yosemite Avenue – PST 21-156. December 9.

[82] Kittelson & Associates, Inc. 2022. Prose Manteca Transportation Impact Analysis, Manteca, CA. April 1.

[83] Ibid.

[84] City of Manteca Community Development Department. 2022. Second Review – Site Plan and Design Review and Lot Line Adjustment for Prose Manteca at 1563 and 1625 West Yosemite Avenue – SPA 22-14 and LLA 22-16. May 12.

requirements for emergency access. In addition, three EVA points would be provided: two on West Yosemite Avenue and one on West Center Street extension.

The proposed Drain No. 5 off-site improvements are located on City property adjacent to the Manteca Park Golf Course but would not contribute to an increased use of the golf course. People present at this location at a time of an emergency would follow the golf course's evacuation procedures.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.18 Utilities and Service Systems *Would the project:*					
a) Require or result 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?	Significant and Unavoidable	No	No	No	No
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	Less than significant impact with mitigation incorporated	No	No	No	No
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?	Less than significant impact with mitigation incorporated	No	No	No	No
e) Comply with federal, State, and local management and reduction statutes and regulations related to solid waste?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Water, Wastewater, and Stormwater Facilities

Would the project: *Require or result 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?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact related to expanded water facilities, stormwater facilities, wastewater treatment facilities, and electrical and natural gas facilities. The General Plan FEIR set forth MM PFS-1.1, MM PFS-1.2

MM PFS-2.1, MM PFS-3.1, MM PFS-3.2, MM PFS-7.1, and MM PFS-7.2 to reduce the severity of the impact by requiring, as a condition of project approval, dedication of land and easements, or payment of appropriate fees and exactions, to help offset municipal costs of expansion of water treatment facilities and delivery systems; promoting reduced wastewater system demand through efficient water use; requiring the dedication and improvement of drainage detention basins as a condition of development approval according to the standards of the Drainage Master Plan; ensuring adequate, reliable electric service is available to all users in the City; promoting energy conservation and the use of solar energy techniques; and Supporting the use of alternative energy sources in new commercial, industrial and residential development.

The General Plan FEIR concluded that for the expansion of water, stormwater, and wastewater facilities, the residual significance would be less than significant after implementation of mitigation. However, for the expansion of electrical and natural gas facilities, there would be a significant and unavoidable impact.

The proposed residential project consists of the development of 420 multi-family residential units on the project site. The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Therefore, the proposed residential project is considered planned growth and to the extent that the project would require new or expanded water, wastewater, stormwater, electrical and natural gas facilities, this was previously considered by the General Plan FEIR.

The residential project site is mostly undeveloped land. Therefore, the construction of 420 multi-family residential units would increase water demand on-site. The 2015 UWMP projects that the City can meet all water demands through the year 2035 given planned growth.[85] As stated above, the proposed residential project is considered planned growth. At the time the General Plan FEIR was published, the City had planned for the expansion of the Wastewater Quality Control Facility (WQCF) to accommodate growth for buildout of the General Plan. As part of the proposed residential project, water and sanitary sewer lines would connect to existing lines west of the project site, and fire service water lines would connect to existing facilities on West Yosemite Avenue. Therefore, expansion of water and wastewater facilities needed to accommodate the proposed residential project have already occurred.

The proposed Drain No. 5 off-site improvements would require only a nominal amount of irrigation water for the minimal landscaping proposed on top of the fill material to be placed on-site. The proposed Drain No. 5 off-site improvements would not require sanitary sewer service.

The proposed residential project's storm drainage system would consist of the construction of five bioretention areas and incorporation of an existing retention basin along the western edge of the project site (see Exhibit 6), as well as inlets and underground piping that would capture runoff and release it into the municipal storm drainage system at a rate no greater than the predevelopment

[85] City of Manteca. 2016. City of Manteca 2015 Urban Water Management Plan. Table 7-2: Normal Year Supply and Demand Comparison. Website: https://www.ci.manteca.ca.us/engineering/Documents/Manteca_2015_UWMP-FinalDraft.pdf. Accessed March 4, 2022.

condition of the residential project site. Impacts related to construction of this storm drainage system are analyzed as part of the proposed residential project. No other existing stormwater facilities would need to be expanded because of the proposed residential project. Furthermore, the proposed residential project would be required to comply with General Plan FEIR MM PFS-1.1, General Plan FEIR MM PFS-2.1, and General Plan FEIR MM PFS-3.1.

The proposed Drain No. 5 off-site improvements would convert on open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not require or result in the need for new or expanded stormwater drainage facilities.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

b) Water Supply

Would the project: *Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with water supply. However, the General Plan FEIR set forth MM PFS-1.1 and MM PFS 1.2 to reduce the severity of the impact by requiring, as a condition of project approval, dedication of land and easements, or payment of appropriate fees and exactions, to help offset municipal costs of expansion of water treatment facilities and delivery systems. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The residential project site is mostly undeveloped land. Therefore, the construction of 420 multi-family residential units would increase water demand on-site. The General Plan designates the residential project site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Furthermore, the 2015 UWMP, Table 7-2: Normal Year Supply and Demand Comparison, projects that the City can meet all water demands through the year 2035 given planned growth.[86] The proposed residential project is considered planned growth and to the extent that the proposed residential project would require additional water supply, this was previously considered by the General Plan FEIR. In addition, the proposed residential project would be required to implement MM PFS-1.1.

The proposed Drain No. 5 off-site improvements would convert an open storm drain canal into an underground pipe which would continue to serve as storm drainage conveyance and would not require water supply. Impacts would be less than significant.

[86] Kennedy Jenks Consultants. 2016. City of Manteca 2015 Urban Water Management Plan. July. Website: https://www.ci.manteca.ca.us/engineering/Documents/Manteca_2015_UWMP-FinalDraft.pdf. Accessed February 10, 2022.

Therefore, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts than what was disclosed in the General Plan FEIR. No additional analysis is required.

c) Wastewater Treatment Capacity

Would the project: *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?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with wastewater treatment. The General Plan FEIR set forth MM PFS-2.1 to reduce the severity of the impact by promoting reduced wastewater system demand through efficient water use. The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The General Plan designates the residential project site for 'CMU' use, and the proposed 420 residential units are consistent with that land use designation. Therefore, the proposed residential project is considered planned growth. In 2006, the City published the WQCF Master Plan Update, which led to the expansion of the WQCF.[87] At the time the General Plan FEIR was published (2003), the City had planned for this expansion to accommodate growth for buildout of the General Plan, including 'CMU' development on the residential project site. Furthermore, the proposed residential project would be subject to MM PFS-2.1 Therefore, to the extent that the proposed residential project would generate additional effluent that would require treatment, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not generate wastewater. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

d, e) Solid Waste Reduction Goals Consistency

Would the project: *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?*

Would the project: *Comply with federal, State, and local management and reduction statutes and regulations related to solid waste?*

The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with solid waste. The General Plan FEIR set forth MM PFS-4.1 and MM PFS-5.1 to reduce the severity of the impact by providing for the implementation and enforcement of the provisions for the Source Reduction and Recycling Element, as mandated by the State and by implementing and enforcing the provisions of the City's Source Reduction and Recycling Element.

[87] Nolte. 2006. City of Manteca Wastewater Quality Control Facility Master Plan Update. December Website: https://www.ci.manteca.ca.us/engineering/Documents/Sewer%20Treatment%20System%20Master%20Plan.pdf. Accessed February 10, 2022.

The General Plan FEIR concluded that the residual significance would be less than significant after implementation of mitigation.

The General Plan designates the project site for 'CMU' use and the proposed 420 residential units are consistent with that land use designation. Therefore, the proposed residential project is considered planned growth. The proposed residential project would utilize the Lovelace Solid Waste Transfer Station, which sorts recyclable materials for the City.[88] This transfer station has a maximum permitted throughput of 1,300 tons per day.[89] Waste is delivered to the Austin Road/Forward Landfill,[90] which has a closure date of 2053, and a maximum permitted throughput of 8,668 tons per day.[91] As of 2020, the remaining capacity was 24,720,669 cubic yards.[92]

According to the California Department of Resources Recycling and Recovery (CalRecyle), multi-family residential units produce up to about 8.6 pounds of solid waste per day.[93] Therefore, the proposed residential project would produce an estimated 3,612 pounds of solid waste per day, which is approximately 0.02 percent of the maximum permitted throughput capacity of the Austin Road/Forward Landfill.[94] Additionally, the proposed residential project would be required to comply with all federal, State, and local regulations regarding solid waste. To the extent that the proposed residential project would generate both construction and operational solid waste, this was previously considered by the General Plan FEIR. The proposed Drain No. 5 off-site improvements would not generate solid waste. For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

General Plan FEIR Mitigation Measures

General Plan FEIR Mitigation Measure PFS-1.1

PFS-1.1 The Public Facilities and Services Element (Section 6) of the General Plan 2023 addresses domestic water supply through the following implementation measure:

> **PF-I-3** The City shall require, as a condition of project approval, dedication of land and easements, or payment of appropriate fees and exactions, to help offset municipal costs of expansion of water treatment facilities and delivery systems.

[88] City of Manteca. 2003. Manteca General Plan 2023 Draft Environmental Impact Report. Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Planning%20Division/Planning%20Division%20Documents/Environmental/General%20Plan%202023%20Draft%20EIR.pdf. Accessed March 4, 2022.

[89] California Department of Resources Recycling and Recovery (CalRecycle). 2019. SWIS Facility/Site Activity Details. Lovelace Transfer Station. Website: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1428?siteID=3101. Accessed March 4, 2022.

[90] City of Manteca. 2003. Manteca General Plan 2023 Draft Environmental Impact Report. Website: https://www.ci.manteca.ca.us/CommunityDevelopment/Planning%20Division/Planning%20Division%20Documents/Environmental/General%20Plan%202023%20Draft%20EIR.pdf. Accessed March 4, 2022.

[91] California Department of Resources Recycling and Recovery (CalRecycle). 2019. SWIS Facility/Site Activity Details. Forward Landfill, Inc. Website: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1434?siteID=3106. Accessed March 4, 2022.

[92] Ibid.

[93] California Department of Resources Recycling and Recovery (CalRecyle). 2019. Estimated Solid Waste Generation Rates. Website: https://www2.calrecycle.ca.gov/wastecharacterization/general/rates. Accessed February 10, 2022.

[94] 8.6 pounds of solid waste per unit per day * 420 units = 3,612 pounds of solid waste per day.

General Plan FEIR Mitigation Measure PFS-2.1

PFS-2.1 The Public Facilities and Services Element (Section 6) of the General Plan 2023 addresses wastewater (sewer) treatment through the following implementation measure:

PF-I-12 The City will promote reduced wastewater system demand through efficient water use by:

- requiring water conserving design and equipment in new construction;
- encouraging retrofitting with water conserving devices;
- designing wastewater systems to minimize inflow and infiltration to the extent economically feasible; and
- maintaining a Citywide map of all sewer collection system components and monitoring the condition of the system on a regular basis.

General Plan FEIR Mitigation Measure PFS-3.1

PFS-3.1 The Public Facilities and Services Element (Section 6) of the General Plan 2023 addresses stormwater drainage through the following policies:

PF-P-25 The City shall require the dedication and improvement of drainage detention basins as a condition of development approval according to the standards of the Drainage Master Plan. The responsibility for the dedication and improvement of detention basins shall be based on the prorated share of stormwater runoff resulting from each development.

PF-P-26 Storm drainage systems within new development areas shall include open drainage corridors where feasible to supplement or replace an underground piped drainage system. The drainage systems would provide for short-term stormwater detention, stormwater conveyance for stormwaters exceeding a 10-year event, stormwater quality treatment, bike and pedestrian paths, and visual open space within neighborhoods.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.19 Wildfire *If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, would the project:*					
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	N/A	No	No	No	No
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?	N/A	No	No	No	No
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?	N/A	No	No	No	No
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?	N/A	No	No	No	No

a, b, c, d) Wildfire Emergency Response/Human Exposure/New Facilities/Post-Fire Flooding

Would the project: *If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, substantially impair an adopted emergency response plan or emergency evacuation plan?*

If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, 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?

If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, 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?

If located in or near State Responsibility Areas or lands classified as Very High Fire Hazard Severity Zones, 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?

The General Plan FEIR addressed wildland fires in Section 1.5, EIR Focus and Effects Found not to be Significant. The General Plan FEIR found that buildout of the General Plan would have a potentially significant impact associated with emergency response and evacuation. The General Plan FEIR sets forth MM HM-5.1 to reduce the severity of impacts by periodic emergency response exercises conducted by the City to test the effectiveness of City emergency response procedures, and by City review of County and State emergency response procedures that must be coordinated with City procedures. The undeveloped portions of the Planning Area mostly contain agricultural land, which has an extremely low susceptibility to wildland fires because the land is actively managed. Therefore, the General Plan FEIR concluded that the likelihood of the Planning Area being exposed to wildland fires is low, and no impact would occur.

The two project sites contains flat, undeveloped land that previously supported farming operations. They are bordered by urban infrastructure (e.g., medical facilities, West Yosemite Avenue), a golf course, and residential and commercial uses. For these reasons, the two project sites are not susceptible to wildland fires. Thus, the proposed residential project and the proposed Drain No. 5 off-site improvements would not increase exposure to wildfires, require additional wildfire fighting infrastructure, or increase post-fire flooding risks.

Center Street, located east of the residential project site, currently terminates at the residential project site's eastern boundary. As part of the proposed residential project, this road would be extended through the residential project site, as shown in Exhibit 5a. The northern portion of the proposed residential project would have three driveways connecting to Center Street, while the southern portion of the proposed residential project would have two driveways connecting to Center Street and one driveway connecting to West Yosemite Avenue. As shown in Exhibit 5a, the West Yosemite Avenue driveway would serve as the fourth leg of the West Yosemite Avenue/Winters Drive intersection. The driveways would be consistent with California Fire Code requirements for emergency access as directed by the City Fire Department preliminary review.[95] Furthermore, parking lots throughout the residential project site would allow for emergency vehicle access to each proposed building. Therefore, the proposed residential project would have adequate emergency access and would not impair an emergency response plan. The proposed Drain No. 5 off-site improvements are located on City property adjacent to the Manteca Park Golf Course, but would not contribute to an increased use of the golf course. People present at this location at a time of an emergency would follow the golf course's evacuation procedures. For these reasons, the proposed

[95] City of Manteca Community Development Department. 2021. Comment Letter for Preliminary Staff Review – Prose Manteca – 1563 and 1625 West Yosemite Avenue – PST 21-156. December 9.

residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR. No additional analysis is required.

General Plan FEIR Mitigation Measures

None required.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

Environmental Issues	CEQA Section 15183(b) Criteria				
	Prior FEIR Determination	Effect Peculiar to Project or Site?	New Significant Effect?	New Significant Off-site, Cumulative Impact?	New Information, More Severe Adverse Impact?
4.20 Mandatory Findings of Significance					
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?	Less than significant impact with mitigation incorporated	No	No	No	No
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)?	Less than significant impact with mitigation incorporated	No	No	No	No
c) Does the project have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?	Less than significant impact with mitigation incorporated	No	No	No	No

a) Potential Degradation to Environment and Examples of California History or Prehistory

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?*

The General Plan FEIR found that General Plan buildout would have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a wildlife species, or eliminate important examples of the major periods of California history or prehistory. The General Plan FEIR set forth MM B-1.1 to reduce the severity of potential impacts. It was determined that impacts would be less than significant with mitigation incorporated.

The General Plan designates the project residential site for 'CMU' use and the proposed multi-family residential development is consistent with that land use designation. Olberding Environmental, Inc. prepared a BRA Report (2021 BRA) for the residential project site in November of 2021[96] (see Appendix B) and found that the residential project site may provide habitat for special-status plants, including heartscale and lesser saltscale; may provide foraging for bats species such as pallid bat; may have potential for some birds, such as loggerhead shrike and white-tailed kite to utilize it for foraging; and may support other bird species protected under the MBTA that nest on the ground. However, implementation of MM B-3.1, which requires a determination by the local regulatory agency and implementation of compensatory mitigation, if determined necessary, would reduce potential impacts to less than significant levels.

The residential project site does not have potential to support any special-status invertebrates, fish, amphibians, or reptiles; lacks suitable roosting habitat for special-status bats; no potential for any special-status or other birds to nest. The remnant irrigation ditch and retention basin located on-site along the western residential project boundary are not jurisdictional as a water of the United States and therefore not regulated by the USACE, but may be considered a jurisdictional water of the State and therefore be regulated by the RWQCB under the Porter Cologne Water Quality Control Act.

There are no previously known or recorded historical or archaeological resources in the residential project site. The pedestrian survey identified three wells in the residential project site that are less than 45 years old in age and do not appear to qualify for the CRHR or NRHP. No unrecorded archaeological resources were encountered during the pedestrian survey.

While unlikely, subsurface construction activities always have the potential to damage or destroy previously undiscovered historic or archaeological resources or human remains. However, as required by the General Plan FEIR, and based on the implementation of General Plan FEIR MM RC-38, the project applicant shall be required to implement MM CUL-1 which would reduce potential impacts historic or archaeological resources to a less than significant level, and implementation of General Plan FEIR Implementation Measure RC-I-46 and additional mitigation measure MM CUL-2 would reduce potential impacts to huma remains to a less than significant level. The NAHC Sacred Lands File produced a positive result for TCRs within the residential project area. However, as required by the General Plan FEIR, and based on the implementation of General Plan FEIR MM RC-38, the residential project applicant shall be required to implement MM CUL-1 which would reduce potential impacts to a less than significant level.

The General Plan designates the Drain No. 5 off-site improvements site for 'P' and the proposed drain undergrounding is consistent with that land use designation. The proposed Drain No. 5 off-site improvements would not result in degradation to environment or to examples of California history or prehistory.

[96] Olberding Environmental, Inc. 2021. Biological Resources Analysis Report for the Prose Manteca Property, San Juaquin County, California. November.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

b) Cumulatively Considerable Impacts

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)?*

The General Plan FEIR found that General Plan buildout would not have impacts that are individually limited, but cumulatively considerable because of the location of the project, its characteristics, and its less than significant impacts. The General Plan FEIR concluded that cumulative impacts related to visual resources, agricultural resources, air quality, biological resources, and traffic and circulation would be significant and unavoidable.

The General Plan designates the residential project site for 'CMU,' and the proposed multi-family residential development is consistent with that land use designation. Furthermore, the proposed residential project's impacts on visual resources, air quality, biological resources, cultural resources, energy resources, geology and soils, hazards and hazardous materials, hydrology and water quality, noise, and utilities would be reduced through implementation of MM AV-1.1, MM AV-2.1, MM AV-3.1, MM AQ-P-7, MM-AQ-I-2, MM AQ-I-8, MM AQ-I-15, MM AQ-I-4, MM B-1.1, MM RC-38, MM RC-I-46 MM, CUL-1, MM CUL-2, MM PF-I-15, MM RC-I-6, MM RC-I-8, MM GSS-2.1, MM GSS-3.1, MM GSS-4.1, MM GEO-6, MM HM-1.1, MM HWQ-1.1, MM HWQ-3.1, MM HWQ-4.1, MM N-1.1, MM N-2.1, MM N-5.1, MM PFS-1.1, MM PFS-2.1, and MM PFS-3.1.

The General Plan designates the Drain No. 5 off-site improvements site for 'P' and the proposed drain undergrounding is consistent with that land use designation. The proposed Drain No. 5 off-site improvements would not result in cumulative impacts.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

c) Adverse Effects on Human Beings?

Does the project: *Have environmental effects, which will cause substantial adverse effects on human beings, either directly or indirectly?*

The General Plan FEIR found that General Plan buildout would not have environmental effects, which will cause substantial adverse effects on human beings. The General Plan FEIR concluded that impacts related to air quality were found to be significant and unavoidable.

The General Plan designates the residential project site for 'CMU,' and the proposed multi-family residential development is consistent with that land use designation. The proposed residential project would be required to implement MM GSS-2.1, MM GSS-3.1, MM GSS-4.1, MM GEO-6, MM HM-1.1, MM HWQ-1.1, MM MWQ-3.1, and MM HWQ-4.1.

The General Plan designates the Drain No. 5 off-site improvements site for 'P' and the proposed drain undergrounding is consistent with that land use designation. The proposed Drain No. 5 off-site improvements would not result in adverse effects on human beings.

For these reasons, the proposed residential project and the proposed Drain No. 5 off-site improvements would not result in new or more severe impacts disclosed in the General Plan FEIR.

General Plan FEIR Mitigation Measures

MM AV-1.1, MM AV-2.1, MM AV-3.1, MM AQ-P-7, MM-AQ-I-2, MM AQ-I-8, MM AQ-I-15, MM AQ-I-4, MM B-1.1, MM RC-38, MM RC-I-46, MM PF-I-15, MM RC-I-6, MM RC-I-8, MM GSS-2.1, MM GSS-3.1, MM GSS-4.1, MM HM-1.1, MM HWQ-1.1, MM HWQ-3.1, MM HWQ-4.1, MM N-1.1, MM N-2.1, MM N-5.1, MM PFS-1.1, MM PFS-2.1, and MM PFS-3.1.

Additional Mitigation Measures

MM CUL-1, MM CUL-2, and MM GEO-6.

Conclusion

The conclusions from the General Plan FEIR remain unchanged.

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Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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Appendix A: Air Quality, Greenhouse Gas Emissions, and Energy Supporting Information

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AERMOD Mitigated Phase 1 Off-site Scenario Output File 442

AERMOD Mitigated Phase 2 Off-site Scenario Output File 453

Prose Manteca Multi-Family Housing Project CalEEMod Notes

Note 1. Land uses and sizes associated with development of the proposed project are drawn from the applicant provided responses to the FCS Request for Information dated February 2, 2022. Land uses utilized in the model represent the following:

Parking > Parking Lot > 249.04 x 1000sqft = 249,044 square feet of internal streets and surface parking.

Recreational > City Park > 6.25 acres = 262,792 square feet of landscaping and 27,955 of bioretention areas.

Recreational > Recreational Swimming Pool > 2.0 x 1,000 square feet = swimming pool. Additionally, community center, fitness center, yoga studio, and lounge = 5,997 sq ft.

Residential > Apartments Mid Rise > 420 Dwelling units = 463,373 gross square feet of residential space. Note that the building footprint would be 157,545 sq ft or 3.39 acres.

Parking > Other Non-Asphalt Surfaces > 2.885 sq ft x 1,000 = 2,885 sq ft of off-site roadwork improvements and utility installation.

Note, applicant provided information results in a total lot acreage of 15.41 acres. However, the city-approved site plans from the applicant show a total site acreage of 18.15 acres. In order to account for any site grading and preparation, an additional 2.74 acres (119,355 sq ft.) was included in the "parking lot" land use for a total of 368,399 sq ft.

Note 2. During the proposed project construction model, all operational emission sources were reduced to zero to separate modeled construction emissions from operational emission results. During the proposed project operational models, all construction emission sources were reduced to zero to separate modeled construction and operational emission results.

Note 3. According to information provided by the Project Applicant, construction is anticipated to start in February 2023 and end in July 2024. Based on project information, the project would not result in demolition activity or hauling of soil material during grading.
During Off-site improvement construction the "Building Construction" Phase was removed because these improvements would only consist of site preparation, grading, and paving to install new underground utility lines. No structures would be constructed during the off-site improvements phase.

Note 4. Kittelson and Associates prepared the Prose Manteca Transportation Impact Analysis (TIA) dated April 1, 2022 for the proposed project. The TIA utilized ITE 11th edition trip rates, which classifies the proposed project as a "Multi-Family Housing, Low-Rise" because the proposed project would be three stories tall.

- **Multifamily Housing (Low-Rise) (ITE 220)** - Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have two or three floors (levels). Various configurations fit this description, including walkup apartment, mansion apartment, and stacked townhouse.

However, CalEEMod Version 2020.4.0 uses ITE 10th edition trips rates, which classifies the same land use of Apartments Low-Rise as, "Low-rise apartment units located in rental buildings 1-2 levels." This would be incorrect because the proposed project would be three stories tall. As a result, the CalEEMod model files for the proposed project used the land use "Apartments Mid-Rise," which is defined as, "Mid-rise apartments in rental buildings that have between 3 and 10 levels." In addition, the project-specific trip rate of 6.59 daily trips per unit from the TIA prepared by Kittelson and Associates was used to model project operational mobile emissions.

Note 5. San Joaquin Valley Air Pollution Control District (SJVAPCD) *Regulation VIII (Fugitive PM_{10} Prohibition)* were applied to the model, which would be required to ensure that the proposed project would result in a less-than-significant impact related to fugitive dust emissions during construction. To represent this in the modeling, the model was adjusted to include watering of exposed areas at minimum twice per day and limiting construction vehicle speeds to 15 miles per hour on unpaved roads.

Note 6. For the 2030 operational models, PG&E's 2030 CO_2 intensity factor is derived from an assumed 2030 power mix based on equal proportions of generation sources in 2020. The only factor that has been uniquely adjusted for 2030 is the change of eligible renewable energy sources total proportion from 33% to 60% to comply with Senate Bill 100's 2030 performance goals. Based on known factors for PG&E's 2019 CO_2 intensity factor, a proximate CO_2 intensity factor of 184 pounds per megawatt-hour delivered was identified for 2030. Please see PG&E Intensity Factors in this Appendix for more information.

For the 2030 operational model, construction emission factors, such as off-road equipment, dust from Material Movement, Demolition, Trips and VMT related to construction are reduced to zero to isolate 2030 operational output results.

Note 7. As the City of Manteca does not have a reach code which prevents this development from including any natural gas features, the proposed project was assumed to include natural gas design.

In addition, the proposed project would be required to comply with District Rule 4901, which prohibits any person or builder from installing a wood-burning device in new building construction. Therefore, no wood-burning hearths are included in the project modeling.

Note 8. In addition, according to information provided by the Project Applicant, the proposed project would include rooftop solar, as required by the 2019 California Building Code (CBC). It should be noted that the solar requirement contained in the CBC pertain only to residential buildings containing three habitable stories or less. Therefore, future rooftop solar calculations herein consider all the residential buildings (3 stories tall) and the clubhouse (1 story tall). According to the California Code of Regulations, Title 24, Part 6, Subchapter 8 – Low-Rise Residential Building – Performance and Prescriptive Compliance Approaches, Section 150.1(c)14, "[a]ll low-rise residential buildings shall have a photovoltaic (PV) system meeting the minimum qualification requirements as specified in Joint Appendix JA11, with annual electrical output equal or greater than the dwelling's annual electrical usage as determined by Equation 150.1-C:"

Equation 150.1-C Annual Photovoltaic Electrical Output

$$\mathbf{kW_{PV} = (CFA \times A)/1{,}000 + (NDwell \times B)}$$

Where:

kW_{PV} = kWdc size of the PV system

CFA = conditioned floor area

NDwell = number of dwelling units

A = Adjustment factor from Table 150.1-C

B = Dwelling adjustment factor from Table 150.1-C

The proposed project is located in climate zone 12,[1] and the total conditioned floor area of all the residential building is 379,940 square feet. As identified in Table 150.1-C of the above referenced section, the appropriate A adjustment factor is 0.613 and B adjustment factor is as 1.14.

Therefore:

$$\mathbf{kW_{PV} = (379{,}940 \times 0.613)/1{,}000 + (420 \times 1.14) = 711\ kW_{PV}}$$

While this accounts for the entire project's kW PV system, it does not provide the annual production rate that would be generated by this size of system. Since there are 420 dwelling units within the proposed project, the averaged PV output is 1.70 kW per dwelling unit. According to TheEcoExperts.com,[2] a 2 kW PV system has an average annual production rate of 1,700 kWh/year. The below equation applies the same average annual production rate to the calculated 1.70 kW system.

$$\mathbf{(1.70/2) * 1{,}700\ kWh/year = 1{,}445\ kWh/year}$$

Therefore, the proposed project is expected to result in an average on-site electricity generation rate of 1,445 kWh per year per dwelling unit, which equates to 606,900 kWh per year given there are 420 dwelling units.

Note 9. Based on project applicant information the first half of the residential units closest to Yosemite Avenue, approximately 11 buildings made up of 231 dwelling units, would be occupied in February 2024. During the first phase it was assumed that site preparation, grading of the entire project site, building construction, paving, and architectural coating would occur. During the second phase the remaining residential units would be constructed, approximately 189 units, which would only involve building construction and architectural coating. The first phase consists of:

---

1 California Energy Commission (CEC). 2018. California Building Climate Zones. Website: https://cecgis-caenergy.opendata.arcgis.com/datasets/549017ee96e341d2bbb3dd0c291a9112_0/explore?location=37.790922%2C-121.947109%2C9.21. Accessed November 17, 2021.

2 TheEcoExperts. 2020. Solar Panel Output. Website: http://www.theecoexperts.com/solar-panel-output/. Accessed December 27, 2021.

Parking > Parking Lot > 368.4 x 1000sqft = 368,399 square feet of internal streets and surface parking.

Recreational > City Park > 6.25 acres = 262,792 square feet of landscaping and 27,955 of bioretention areas.

Recreational > Recreational Swimming Pool > 2 x 1,000 square feet = swimming pool. Additionally, community center, fitness center, yoga studio, and lounge = 5,997 sq ft.

Residential > Apartments Mid Rise > 231 Dwelling units = 254,855 gross square feet of residential space. Note that the building footprint would be 157,545 sq ft or 3.39 acres.

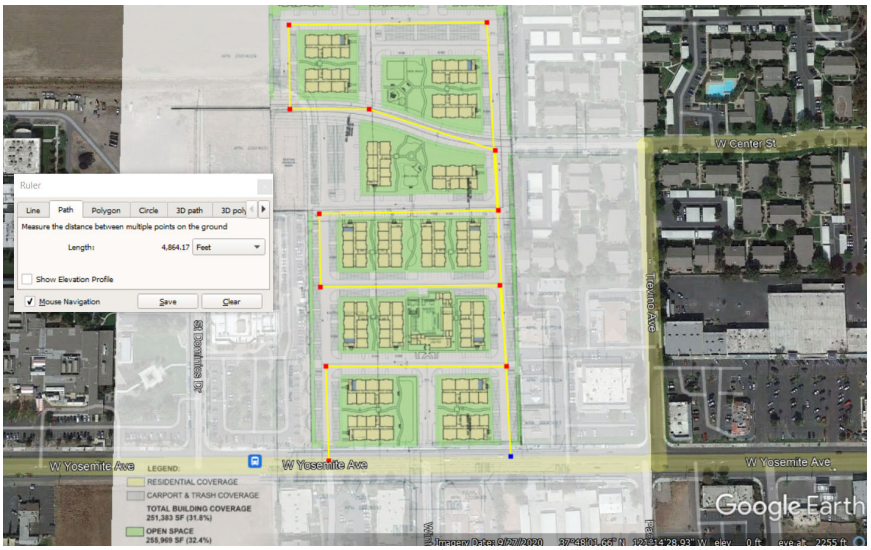
The second phase of development consists of:

Residential > Apartments Mid Rise > 189 Dwelling units = 208,518 gross square feet of residential space. Note lot acreage reduced to 0 acres because grading would occur during phase 1.

Although the construction schedule and equipment list are shown as edited and non-default, CaleeMod default construction schedules were utilized to present a conservative analysis. The reason the construction schedule and equipment list appear as non-defaults is because when a lot acreage of "0" is selected for this scenario the model defaults would normally be 0. However, as described previously, Phase 2 construction only includes building construction and architectural coating and as such, the default duration of 230 and 18 days respectively were used.

Note 10. The construction CalEEMod runs were adjusted to account for SJVAPCD Rule 4601 which limits the ROG content of architectural coating to 50 grams per liter (g/L) for residential and non-residential development. See Table 1 of SJVAPCD Rule 4601.

Note 11. In addition to the trip generation rate adjustments detailed in Note 4, during the localized pollutant analysis an estimated trip length of 4,870 feet was used to determine the maximum length a vehicle could travel on the project site. This trip length, as shown below, is the longest distance a vehicle could travel on the project site. In addition, primary trips were changed to 100 percent and all other trips were reduced to 0 to model a scenario where all vehicle trips would only occur on-site.



Note 12. For the Business as Usual analysis (BAU), a CO_2 Intensity Factor of 641.35 lb/Mwh was used to account for PGE's 2005 factor and 2024 and 2030 fleet mixes were incorporated.

Prose Manteca Multi-Family Residential Unmitigated Construction

CalEEMod Run: Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual
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CalEEMod Run: Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual
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Annual Construction Emissions (tons/year)

Phase	ROG	NO_x	CO	SO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)	CO_2e (Metric Tons)
	Phase 1 Construction						
on site	0.01	0.14	0.09	0.00	0.05	0.03	16.86
off site	0.00	0.00	0.00	0.00	0.00	0.00	0.57
Site Preparation 2023	**0.01**	**0.14**	**0.09**	**0.00**	**0.05**	**0.03**	**17.43**
on site	0.05	0.05	0.42	0.00	0.08	0.04	82.46
off site	0.00	0.00	0.00	0.00	0.00	0.00	1.90
Grading 2023	**0.05**	**0.05**	**0.42**	**0.00**	**0.08**	**0.04**	**84.36**
on site	0.16	1.42	1.61	0.00	0.07	0.07	230.85
off site	0.12	0.56	1.02	0.00	0.38	0.11	463.95
Building Construction 2023	**0.28**	**1.98**	**2.62**	**0.00**	**0.45**	**0.17**	**694.80**
2023 On site	0.21	1.61	2.12	0.00	0.20	0.13	330.17
2023 Off site	0.12	0.56	1.02	0.00	0.38	0.11	466.42
2023 Total	**0.33**	**2.17**	**3.13**	**0.00**	**0.58**	**0.24**	**796.59**
on site	0.08	0.69	0.82	0.00	0.03	0.03	118.94
off site	0.06	0.28	0.49	0.00	0.20	0.05	232.84
Building Construction 2024	**0.13**	**0.97**	**1.31**	**0.00**	**0.23**	**0.08**	**351.78**
on site	0.02	0.10	0.15	0.00	0.00	0.00	20.19
off site	0.00	0.00	0.00	0.00	0.00	0.00	0.91
Paving 2024	**0.02**	**0.10**	**0.15**	**0.00**	**0.00**	**0.00**	**21.10**
on site	0.87	0.01	0.02	0.00	0.00	0.00	2.56
off site	0.00	0.00	0.02	0.00	0.00	0.00	4.75
Architectural Coating 2024	**0.87**	**0.01**	**0.03**	**0.00**	**0.00**	**0.00**	**7.31**
	Phase 2 Construction						
on site	0.09	0.81	0.97	0.00	0.04	0.03	139.93
off site	0.02	0.07	0.19	0.00	0.07	0.02	73.53
Building Construction 2024	**0.11**	**0.87**	**1.16**	**0.00**	**0.11**	**0.05**	**213.46**
2024 On site	1.05	1.60	1.95	0.00	0.07	0.06	281.62
2024 Off site	0.08	0.35	0.69	0.00	0.27	0.08	312.03
2024 Total	**1.12**	**1.95**	**2.65**	**0.00**	**0.34**	**0.13**	**593.65**
on site	0.08	0.69	0.88	0.00	0.03	0.03	128.30
off site	0.02	0.06	0.16	0.00	0.07	0.02	65.45
Building Construction 2025	**0.09**	**0.74**	**1.04**	**0.00**	**0.10**	**0.05**	**193.75**
on site	0.59	0.01	0.02	0.00	0.00	0.00	2.30
off site	0.00	0.00	0.00	0.00	0.00	0.00	1.43
Architectural Coating 2025	**0.59**	**0.01**	**0.02**	**0.00**	**0.00**	**0.00**	**3.73**
2025 On site	0.67	0.70	0.90	0.00	0.03	0.03	130.60
2025 Off site	0.02	0.06	0.16	0.00	0.07	0.02	66.88
2025 Total	**0.68**	**0.75**	**1.06**	**0.00**	**0.10**	**0.05**	**197.48**
Total	**2.14**	**4.87**	**6.84**	**0.00**	**1.02**	**0.42**	**1587.71**
						Amortized over 30 years:	**52.92**
Max Annual	1.12	2.17	3.13	0.00	0.58	0.24	

CalEEMod Run: Prose Manteca Unmitigated Off-Site Improvements Construction Run - San Joaquin County, Annual
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Annual Construction Emissions (tons/year)

	ROG	NO_x	CO	SO_X	PM_{10} (Total)	$PM_{2.5}$ (Total)	CO_2e (Metric Tons)
on site	0.00027	0.00309	0.00196	0.00000	0.00023	0.00011	0.43
off site	0.00001	0.00000	0.00006	0.00000	0.00002	0.00001	0.02
Site Preparation 2023	**0.00028**	**0.00309**	**0.00202**	**0.00000**	**0.00025**	**0.00012**	**0.45**
on site	0.00093	0.01020	0.00555	0.00001	0.00281	0.00155	1.25
off site	0.00002	0.00002	0.00018	0.00000	0.00006	0.00002	0.05
Grading 2023	**0.00095**	**0.01022**	**0.00573**	**0.00001**	**0.00287**	**0.00157**	**1.30**
on site	0.00153	0.01380	0.01760	0.00003	0.00066	0.00062	2.37
off site	0.00013	0.00009	0.00102	0.00000	0.00036	0.00010	0.28400
Paving 2023	**0.00166**	**0.01389**	**0.01862**	**0.00003**	**0.00102**	**0.00072**	**2.65090**
2023 On site	0.00	0.03	0.03	0.00	0.00	0.00	4.05
2023 Off site	0.00	0.00	0.00	0.00	0.00	0.00	0.07
Total	**0.00**	**0.03**	**0.03**	**0.00**	**0.00**	**0.00**	**4.11**
						Amortized over 30 years:	**0.14**

Summer Construction Maximum Daily

Model File: Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer
Timestamp: Date: 5/5/2022 11:22 AM
Model File: Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer
Timestamp: Date: 5/5/2022 11:41 AM

Year	Activity	ROG	NO_x	SO_x	$PM_{2.5}$ (Total)
	Phase 1 Construction				
	on site	2.66	27.52	0.04	5.71
	off site	0.06	0.03	0.00	0.04
2023	**Site Preparation**	**2.72**	**27.55**	**0.04**	**5.75**
	on site	3.32	34.52	0.06	2.95
	off site	0.07	0.03	0.00	0.04
2023	**Grading**	**3.39**	**34.55**	**0.06**	**2.99**
	on site	1.57	14.38	0.03	0.6584
	off site	1.38	5.378	0.05	1.1
2023	**Building Construction**	**2.75**	**18.73**	**0.08**	**1.69**
	on site	1.47	13.44	0.03	0.58
	off site	1.28	5.29	0.05	1.11
2024	**Building Construction**	**1.79**	**9.55**	**0.02**	**0.46**
	on site	1.74	9.53	0.02	0.43
	off site	0.05	0.02	0.00	0.03
2024	**Paving**	**1.79**	**9.55**	**0.02**	**0.46**
	on site	86.49	1.22	0.00	0.06
	off site	0.23	0.12	0.00	0.17
2024	**Architectural Coating**	**86.72**	**1.34**	**0.00**	**0.23**
	Phase 2 Construction				
	on site	1.47	13.44	0.03	0.58
	off site	0.43	1.06	0.01	0.35
2024	**Building Construction**	**1.90**	**14.50**	**0.04**	**0.92**
	on site	1.37	12.47	0.03	0.50
	off site	0.40	1.03	0.01	0.35
2025	**Building Construction**	**1.77**	**13.50**	**0.04**	**0.84**
	on site	65.70	1.15	0.00	0.05
	off site	0.08	0.04	0.00	0.06
2025	**Architectural Coating**	**65.78**	**1.18**	**0.00**	**0.11**

Winter Construction Maximum Daily

Model File: Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter
Timestamp: Date: 5/5/2022 11:24 AM
Model File: Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter
Timestamp: Date: 5/5/2022 12:13 PM

Year	Activity	ROG	NO_x	SO_x	$PM_{2.5}$ (Total)
	Phase 1 Construction				
	on site	2.66	27.52	0.04	5.71
	off site	0.05	0.03	0.00	0.04
2023	**Site Preparation**	**2.71**	**27.55**	**0.04**	**5.75**
	on site	3.32	34.52	0.06	2.95
	off site	0.06	0.04	0.00	0.04
2023	**Grading**	**3.38**	**34.56**	**0.06**	**2.99**
	on site	1.57	14.38	0.02	0.66
	off site	1.30	5.85	0.05	1.11
2023	**Building Construction**	**2.87**	**20.23**	**0.07**	**1.76**
	on site	1.47	13.44	0.03	0.58
	off site	1.20	5.75	0.05	1.11
2024	**Building Construction**	**2.67**	**19.19**	**0.08**	**1.69**
	on site	1.74	9.52	0.02	0.43
	off site	0.04	0.03	0.00	0.03
2024	**Paving**	**1.78**	**9.55**	**0.02**	**0.46**
	on site	86.50	1.22	0.00	0.06
	off site	0.22	0.14	0.00	0.17
2024	**Architectural Coating**	**86.72**	**1.36**	**0.00**	**0.23**
	Phase 2 Construction				
	on site	1.47	13.44	0.03	0.58
	off site	0.40	1.16	0.01	0.35
2024	**Building Construction**	**1.87**	**14.60**	**0.04**	**0.92**
	on site	1.37	12.47	0.03	0.50
	off site	0.38	1.13	0.01	0.35
2025	**Building Construction**	**1.74**	**13.60**	**0.04**	**0.84**
	on site	65.87	1.15	0.00	0.05
	off site	0.07	0.04	0.00	0.06
2025	**Architectural Coating**	**65.94**	**1.19**	**0.00**	**0.11**

Maximum Daily Construction Emissions Between Summer and Winter

Year	Activity	ROG	NO_x	SO_x	$PM_{2.5}$ (Total)
2023	Site Preparation	2.72	27.55	0.04	5.75
2023	Grading	3.39	34.56	0.06	2.99
2023	Building Construction	2.87	34.55	0.08	1.76
2024	Building Construction	2.67	19.19	0.08	1.69
2024	Paving	1.79	9.55	0.02	0.46
2024	Architectural Coating	86.72	1.19	0.00	0.23
2025	Building Construction	1.74	13.60	0.04	0.84
2025	Architectural Coating	65.94	1.19	0.00	0.11
	MAX	86.72	34.56	0.08	5.75

Project Operational Emissions Summary

Prose Manteca 2024 Operation Run - San Joaquin County, Annual
CalEEMod Run: Annual Date: 4/26/2022 2:57 PM

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Tons per Year					
Area	2.39	0.04	3.12	0.00	0.02	0.02
Energy	0.02	0.18	0.08	0.00	0.01	0.01
Mobile	1.30	2.09	12.51	0.03	3.01	0.82
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**3.72**	**2.30**	**15.71**	**0.03**	**3.04**	**0.85**
SJVAPCD Significance Thresholds	10	10	100	27	15	10
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Prose Manteca 2024 Operation Run - San Joaquin County, Summer
Date: 4/26/2022 2:58 PM

Summer Operation Maximum Daily Emissions (lbs/day)

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Pounds Per Day					
Area	13.63	0.40	34.66	0.00	0.19	0.19
Energy	0.12	1.00	0.42	0.01	0.08	0.08
Mobile	8.35	10.68	71.78	0.17	17.07	4.64
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**22.09**	**12.07**	**106.87**	**0.18**	**17.34**	**4.92**
SJVAPCD Significance Thresholds	100	100	100	100	100	100
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Prose Manteca 2024 Operation Run - San Joaquin County, Winter
Date: 4/26/2022 2:58 PM

Winter Operation Maximum Daily Emissions (lbs/day)

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Pounds Per Day					
Area	13.63	0.40	34.66	0.00	0.19	0.19
Energy	0.12	1.00	0.42	0.01	0.08	0.08
Mobile	6.98	12.08	72.19	0.16	17.07	4.64
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**20.72**	**13.48**	**107.28**	**0.17**	**17.34**	**4.92**
SJVAPCD Significance Thresholds	100	100	100	100	100	100
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

LST

Prose Manteca 2024 Operation LST Run - San Joaquin County, Annual
CalEEMod Run: Annual Date: 5/11/2022 3:58 PM

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Tons per Year					
Area	2.41	0.19	3.19	0.00	0.03	0.03
Energy	0.02	0.18	0.08	0.00	0.01	0.01
Mobile	0.80	0.63	3.98	0.00	0.35	0.10
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**3.23**	**1.00**	**7.24**	**0.00**	**0.39**	**0.14**
SJVAPCD Significance Thresholds	10	10	100	27	15	10
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer
Date: 5/11/2022 4:01 PM

Summer Operation Maximum Daily Emissions (lbs/day)

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Pounds Per Day					
Area	14.07	4.23	36.29	0.03	0.50	0.50
Energy	0.12	1.00	0.42	0.00	0.08	0.08
Mobile	5.59	3.25	19.79	0.02	1.98	0.55
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**19.77**	**8.48**	**56.50**	**0.05**	**2.56**	**1.13**
SJVAPCD Significance Thresholds	100	100	100	100	100	100
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter
Date: 5/11/2022 4:02 PM

Winter Operation Maximum Daily Emissions (lbs/day)

Emissions Source	ROG	NO_x	CO	SO2	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Pounds Per Day					
Area	14.07	4.23	36.29	0.03	0.50	0.50
Energy	0.12	1.00	0.42	0.00	0.08	0.08
Mobile	4.11	3.70	24.96	0.02	1.98	0.55
Waste	-	-	-	-	-	-
Water	-	-	-	-	-	-
Total	**18.29**	**8.93**	**61.67**	**0.05**	**2.56**	**1.13**
SJVAPCD Significance Thresholds	100	100	100	100	100	100
Exceeds Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Project Operational GHG Emissions Summary

Construction - GHG Emissions

CalEEMod Run: Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual
Timestamp: Date: 5/5/2022 11:21 AM
CalEEMod Run: Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual
Timestamp: Date: 5/5/2022 11:39 AM

Emissions Source	Metric Tons per Year
	Total CO2e
Phase 1 Construction	
Site Preparation - 2023	17
Grading - 2023	84
Building Construction - 2023	695
Building Construction - 2024	352
Paving - 2024	21
Architectural Coating - 2024	7
Phase 2 Construction	
Building Construction 2024	213
Building Construction 2025	194
Architectural Coating 2025	4
Total	**1,588**
Amortized Over 30 Years	53

Operation 2024 - GHG Emissions

Prose Manteca 2024 Operation Run - San Joaquin County, Annual
Date: 4/26/2022 2:57 PM

Emissions Source	Metric Tons per Year		
	Total CO2e	Bio-CO2	NBio-CO2e
Area	5	0	5
Energy	308	0	308
Mobile	2,775	0	2,775
Waste	115	46	68
Water	61	9	52
Total	3,265	3,265	3,209
Amortized Construction	53	53	53
Overall Total	3,317		

Operation 2030 - GHG Emissions

Prose Manteca 2030 Operation Run - San Joaquin County, Annual

Date: 5/2/2022 2:56 PM

Emissions Source	Metric Tons per Year		
	Total CO2e	Bio-CO2	NBio-CO2e
Area	5	0	5
Energy	299	0	299
Mobile	2,310	0	2,310
Waste	115	46	68
Water	59	9	50
Total	2,788	2,788	2,733
Amortized Construction	53	53	53
Overall Total	2,841		

Operation BAU 2005 - GHG Emissions

Prose Manteca 2030 Operation Run - San Joaquin County, Annual

Date: 5/2/2022 2:56 PM

Emissions Source	Metric Tons per Year		
	Total CO2e	Bio-CO2	NBio-CO2e
Area	188	0	187
Energy	756	0	753
Mobile	4,057	0	3,916
Waste	103	42	0
Water	106	9	68
Total	5,210	4,974	4,924
Amortized Construction	53	0	0
Overall Total	5,263		

Manteca Prose Residential —Energy Consumption Summary

Summary of Energy Use During Construction		
Construction vehicle fuel	92,669	gallons (gasoline, diesel)
Construction equipment fuel	74,229	gallons (diesel)
Construction office trailer electricity	16,711	kilowatt hours
Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption	287,307	gallons (gasoline, diesel)
Operational natural gas consumption	3,954,820	kilo-British Thermal Units
Operational electricity consumption	1,028,465	kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed April 4, 2022

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

							Calculations	
VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
HHDT	Aggregated	Aggregated	GAS	1.937294118	216.587322	0.049194588	4.40266559	953.56155
HHDT	Aggregated	Aggregated	DSL	9794.815357	1332031.85	189.8518189	7.01616587	9345756.4
LDA	Aggregated	Aggregated	GAS	304868.3534	11794744.1	364.9020102	32.323045	381242044
LDA	Aggregated	Aggregated	DSL	2666.731115	110282.581	2.132014645	51.7269341	5704579.8
LDT1	Aggregated	Aggregated	GAS	30558.59397	1068327.18	38.5404167	27.7196581	29613664
LDT1	Aggregated	Aggregated	DSL	21.01613653	369.150661	0.015365706	24.0243221	8868.5944
LDT2	Aggregated	Aggregated	GAS	97797.16392	3543110.26	136.8911399	25.882685	91705207
LDT2	Aggregated	Aggregated	DSL	565.1522091	24411.2972	0.635318701	38.4237031	937972.43
LHDT1	Aggregated	Aggregated	GAS	7588.199792	240318.16	28.45064209	8.44684488	2029930.2
LHDT1	Aggregated	Aggregated	DSL	8460.104666	270366.73	15.00352826	18.02021	4872065.3
LHDT2	Aggregated	Aggregated	GAS	1041.986198	33461.4663	4.524431562	7.39572825	247471.91
LHDT2	Aggregated	Aggregated	DSL	2720.339035	90499.0266	5.603126258	16.1515237	1461697.2
MHDT	Aggregated	Aggregated	GAS	571.5959922	30857.2389	6.254930507	4.93326646	152226.98
MHDT	Aggregated	Aggregated	DSL	6712.808616	440983.154	45.30066228	9.73458513	4292788

Worker

Sum of VMT*FE (Column BI)	**509212336**
Total VMT	**16541245**
Weighted Average FE	**30.784403**

Vendor

Sum of VMT*FE (Column BI)	**22402890**
Total VMT	**2438734.2**
Weighted Average FE	**9.1862776**

Haul

Sum of VMT*FE (Column BI)	**9346710**
Total VMT	**1332248.4**
Weighted Average FE	**7.015741**

Construction Parameters

Source: AQ/GHG Appendix, CalEEMod Output
Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual
Date: 5/17/2022 10:25 AM
Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual
Date: 5/5/2022 11:39 AM

Construction Schedule

Phase 1	Phase Type	Start Date	End Date	Num Days Week	Num Days
Site Preparation	Site Preparation	2/1/2023	2/14/2023	5	10
Grading	Grading	2/15/2023	3/28/2023	5	30
Building Construction	Building Construction	3/29/2023	5/21/2024	5	300
Paving	Paving	5/22/2024	6/18/2024	5	20
Architectural Coating	Architectural Coating	6/19/2024	7/16/2024	5	20
Phase 2					
Building Construction	Building Construction	7/14/2024	6/3/2025	5	230
Architectural Coating	Architectural Coating	6/4/2025	6/27/2025	5	18

Construction Trips and VMT

	Trips per Day		Total Trips	Construction Trip Length in Miles			Number of	Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Phase 1 Preparation	18	0	0	10.8	7.3	20	10	180	0	0	1,944	0	0	63.15	0.00	0.00
Phase 1 Grading	20	0	0	10.8	7.3	20	30	600	0	0	6,480	0	0	210.50	0.00	0.00
Phase 1 Building Construction	436	130	0	10.8	7.3	20	300	130,800	39,000	0	1,412,640	284,700	0	45,888.17	30,991.88	0.00
Phase 1 Paving	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	105.25	0.00	0.00
Phase 1 Architectural Coating	87	0	0	10.8	7.3	20	20	1,740	0	0	18,792	0	0	610.44	0.00	0.00
Phase 2 Building Construction	136	20	0	10.8	7.3	20	230	31,280	4,600	0	337,824	33,580	0	10,973.87	3,655.45	0.00
Phase 2 Architectural Coating	27	0	0	10.8	7.3	20	18	486	0	0	5,249	0	0	170.50	0.00	0.00

Total Project Construction VMT (miles)

2,104,449

Total Project Fuel Consumption (gallons)

92,669

Construction Equipment Fuel Calculation

Source: AQ/GHG Appendix, CalEEMod Output
Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual
Date: 5/5/2022 11:21 AM
Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual
Date: 5/5/2022 11:39 AM

Construction Schedule

CalEEMod Run	Phase Type	Start Date	End Date	Num Days Week	Num Days
Phase 1 Preparation	Site Preparation	2/1/2023	2/14/2023	5	10
Phase 1 Grading	Grading	2/15/2023	3/28/2023	5	30
Phase 1 Building Construction	Building Construction	3/29/2023	5/21/2024	5	300
Phase 1 Paving	Paving	5/22/2024	6/18/2024	5	20
Phase 1 Architectural Coating	Architectural Coating	6/19/2024	7/16/2024	5	20
Phase 2 Building Construction	Building Construction	7/14/2024	6/3/2025	5	230
Phase 2 Architectural Coating	Architectural Coating	6/4/2025	6/27/2025	5	18

Construction Equipment

Phase	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	HP Hours	Diesel Fuel Usage
Phase 1								
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	10	23712	1,185.60
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	10	11484.8	574.24
Grading	Excavators	2	8	158	0.38	30	28819.2	1,440.96
Grading	Graders	1	8	187	0.41	30	18400.8	920.04
Grading	Rubber Tired Dozers	1	8	247	0.4	30	23712	1,185.60
Grading	Scrapers	2	8	367	0.48	30	84556.8	4,227.84
Grading	Tractors/Loaders/Backhoes	2	8	97	0.37	30	17227.2	861.36
Building Construction	Cranes	1	7	231	0.29	300	140679	7,033.95
Building Construction	Forklifts	3	8	89	0.2	300	128160	6,408.00
Building Construction	Generator Sets	1	8	84	0.74	300	149184	7,459.20
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	300	226107	11,305.35
Building Construction	Welders	1	8	46	0.45	300	49680	2,484.00
Paving	Pavers	2	8	130	0.42	20	17472	873.60
Paving	Paving Equipment	2	8	132	0.36	20	15206.4	760.32
Paving	Rollers	2	8	80	0.38	20	9728	486.40
Architectural Coating	Air Compressors	1	6	78	0.48	20	4492.8	224.64
Phase 2 Building Construction								
Building Construction	Cranes	1	7	231	0.29	230	107853.9	5,392.70
Building Construction	Forklifts	3	8	89	0.2	230	98256	4,912.80
Building Construction	Generator Sets	1	8	84	0.74	230	114374.4	5,718.72
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	230	173348.7	8,667.44
Building Construction	Welders	1	8	46	0.45	230	38088	1,904.40
Architectural Coating	Air Compressors	1	6	78	0.48	18	4043.52	202.18

Total Construction Equipment Fuel Consumption (gallons) **74,229.33**

Construction Office Electricity Calculation

Source: AQ/GHG Appendix, CalEEMod Output

Manteca Prose Project Construction Trailer - San Joaquin County, Annual

Date: 5/14/2022 12:54 AM

Mitigated

kWh/yr = kilowatt hours per year

	Electricity Use
Land Use	kWh/yr
General Office Building	6955.2
Total	

Energy by Land Use - Electricity

Annual	6,955	kWh/yr
Total Over Construction	**16,711**	**kWh**

Total Construction Schedule

Start	2/1/2023
End	6/27/2025
Total Calendar Days	877
Years	2.40

Project Operational Fuel Calculation

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed May 18, 2022.

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: SAN JOAQUIN
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given							*Calculations*	
VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
HHDT	Aggregated	Aggregated	GAS	1.852481367	229.3187588	0.050507327	4.540306773	1041.177514
HHDT	Aggregated	Aggregated	DSL	10150.16284	1359886.793	190.5319154	7.1373176	9705943.942
LDA	Aggregated	Aggregated	GAS	314066.7826	12010984.4	360.785503	33.29120571	399860152.4
LDA	Aggregated	Aggregated	DSL	2878.148694	117640.2774	2.204576982	53.36183691	6277501.295
LDT1	Aggregated	Aggregated	GAS	31312.57928	1089448.414	38.14924827	28.55753294	31111958.97
LDT1	Aggregated	Aggregated	DSL	18.61788222	334.5646915	0.013615341	24.57262679	8221.133301
LDT2	Aggregated	Aggregated	GAS	100179.9651	3593429.455	133.7677529	26.86319667	96531002.19
LDT2	Aggregated	Aggregated	DSL	628.3007549	26489.64057	0.667256853	39.69931585	1051620.608
LHDT1	Aggregated	Aggregated	GAS	7440.877822	234736.7523	27.44888275	8.551778026	2007416.601
LHDT1	Aggregated	Aggregated	DSL	8340.882669	262472.5549	14.38564884	18.24544432	4788928.385
LHDT2	Aggregated	Aggregated	GAS	1033.440223	32905.37804	4.39543425	7.486263283	246338.3234
LHDT2	Aggregated	Aggregated	DSL	2731.479783	89236.85559	5.45370215	16.36261995	1460148.754
MCY	Aggregated	Aggregated	GAS	14024.24742	98224.69903	2.635757863	37.26620735	3660462.001
MDV	Aggregated	Aggregated	GAS	88258.76156	2761763.277	130.5899385	21.14836188	58406769.2
MDV	Aggregated	Aggregated	DSL	1986.140924	74906.24222	2.603044867	28.77639305	2155531.468
MH	Aggregated	Aggregated	GAS	1477.263649	12016.45904	2.454694921	4.89529633	58824.12781
MH	Aggregated	Aggregated	DSL	647.7782116	5159.768733	0.520197431	9.918866238	51179.05588
MHDT	Aggregated	Aggregated	GAS	583.4265434	31731.81837	6.307457646	5.030841291	159637.7421
MHDT	Aggregated	Aggregated	DSL	6968.385025	443468.4953	45.02375575	9.849655762	4368012.02
OBUS	Aggregated	Aggregated	GAS	191.0015339	8673.177027	1.768888887	4.903177974	42526.13056
OBUS	Aggregated	Aggregated	DSL	93.32118112	7002.208015	0.864544176	8.099306215	56713.02689
SBUS	Aggregated	Aggregated	GAS	56.50630638	2775.53272	0.284946948	9.740524475	27035.14439
SBUS	Aggregated	Aggregated	DSL	618.6937278	19357.72054	2.402436219	8.057537758	155975.5642
UBUS	Aggregated	Aggregated	GAS	16.5351032	1505.418299	0.305364486	4.929906289	7421.571142
UBUS	Aggregated	Aggregated	DSL	62.54993768	4897.442948	0.666966273	7.342864467	35961.2598

Sum of VMT*FE	**622236322.1**
Total VMT	**22289276.66**
Weighted Average FE (miles/gallon)	**27.9164**

Total VMT
Prose Manteca 2024 Operation Run - San Joaquin County, Annual
Date: 5/17/2022 10:25 AM

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

	Annual VMT (miles)	Fuel Consumption	
Total VMT	8,020,577	**287,307**	**gallons per year**

Project Operations Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output

Prose Manteca 2024 Operation Run - San Joaquin County, Annual

Date: 4/26/2022 2:57 PM

kBTU/yr = kilo-British Thermal Units/year

Land Use	Natural Gas Use (kBTU/yr)
Apartments Mid Rise	3.95E+06
City Park	0
Other Asphalt Surfaces	0
Recreational Swimming Pool	0
Total	**3,954,820 kBTU/yr**

Mitigated

Land Use	NaturalGas Use kBTU/yr
Apartments Mid Rise	3.95482e+006
City Park	0
Other Asphalt Surfaces	0
Recreational Swimming Pool	0
Total	

Project Operations Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

Prose Manteca 2024 Operation Run - San Joaquin County, Annual

Date: 4/26/2022 2:57 PM

kWh/yr = kilowatt hours per year

Land Use	Mitigated Electricity Use (kWh/yr)
Apartments Mid Rise	1.48E+06
City Park	-151725
Other Asphalt Surfaces	-151725
Recreational Swimming Pool	-151725
Total	**1,028,465 kWh/yr**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.48364e+006	137.2717	0.0222	2.6900e-003	138.6291
City Park	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Other Asphalt Surfaces	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Recreational Swimming Pool	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Total		**95.1572**	**0.0154**	**1.8500e-003**	**96.0982**

Land Use	Unmitigated Electricity Use (kWh/yr)
Apartments Mid Rise	1.64E+06
City Park	0
Other Asphalt Surfaces	0
Recreational Swimming Pool	0
Total	**1,635,360 kWh/yr**

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.63536e+006	151.3099	0.0245	2.9700e-003	152.8061
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**151.3099**	**0.0245**	**2.9700e-003**	**152.8061**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 1 Construction Run

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	368.40	1000sqft	8.46	368,399.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	231.00	Dwelling Unit	3.39	254,855.00	733

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 9

Construction Phase - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water And Wastewater - note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	22,104.00	14,942.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	127.05	0.00
tblFireplaces	NumberNoFireplace	103.95	0.00
tblLandUse	LandUseSquareFeet	368,400.00	368,399.00
tblLandUse	LandUseSquareFeet	231,000.00	254,855.00
tblLandUse	LotAcreage	6.08	3.39
tblSolidWaste	SolidWasteGenerationRate	106.26	0.00
tblSolidWaste	SolidWasteGenerationRate	0.54	0.00
tblSolidWaste	SolidWasteGenerationRate	11.40	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWater	IndoorWaterUseRate	15,050,579.92	0.00
tblWater	IndoorWaterUseRate	118,286.29	0.00
tblWater	OutdoorWaterUseRate	9,488,409.08	0.00
tblWater	OutdoorWaterUseRate	7,446,758.44	0.00
tblWater	OutdoorWaterUseRate	72,498.05	0.00

2.0 Emissions Summary

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.3589	2.7326	3.2784	9.3500e-003	0.6683	0.1023	0.7706	0.2221	0.0957	0.3179	0.0000	848.5888	848.5888	0.0960	0.0453	864.4917
2024	1.0302	1.1258	1.5627	4.4800e-003	0.2291	0.0393	0.2684	0.0619	0.0369	0.0989	0.0000	407.0938	407.0938	0.0392	0.0229	414.8811
Maximum	**1.0302**	**2.7326**	**3.2784**	**9.3500e-003**	**0.6683**	**0.1023**	**0.7706**	**0.2221**	**0.0957**	**0.3179**	**0.0000**	**848.5888**	**848.5888**	**0.0960**	**0.0453**	**864.4917**

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	0.3589	2.7326	3.2784	9.3500e-003	0.5383	0.1023	0.6407	0.1642	0.0957	0.2599	0.0000	848.5884	848.5884	0.0960	0.0453	864.4914
2024	1.0302	1.1258	1.5627	4.4800e-003	0.2291	0.0393	0.2684	0.0619	0.0369	0.0989	0.0000	407.0936	407.0936	0.0392	0.0229	414.8810
Maximum	**1.0302**	**2.7326**	**3.2784**	**9.3500e-003**	**0.5383**	**0.1023**	**0.6407**	**0.1642**	**0.0957**	**0.2599**	**0.0000**	**848.5884**	**848.5884**	**0.0960**	**0.0453**	**864.4914**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**14.48**	**0.00**	**12.51**	**20.39**	**0.00**	**13.90**	**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	**2-1-2023**	**4-30-2023**	1.0013	1.0013
2	**5-1-2023**	**7-31-2023**	0.7815	0.7815
3	**8-1-2023**	**10-31-2023**	0.7865	0.7865
4	**11-1-2023**	**1-31-2024**	0.7823	0.7823
5	**2-1-2024**	**4-30-2024**	0.7338	0.7338
6	**5-1-2024**	**7-31-2024**	1.1671	1.1671
		Highest	1.1671	1.1671

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Area	1.3481	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.9300	11.9300	1.9300e-003	2.3000e-004	12.0480
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3481**	**0.0198**	**1.7179**	**9.0000e-005**	**0.0000**	**9.5100e-003**	**9.5100e-003**	**0.0000**	**9.5100e-003**	**9.5100e-003**	**0.0000**	**14.7385**	**14.7385**	**4.6400e-003**	**2.3000e-004**	**14.9241**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.3481	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	11.9300	11.9300	1.9300e-003	2.3000e-004	12.0480
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.3481**	**0.0198**	**1.7179**	**9.0000e-005**	**0.0000**	**9.5100e-003**	**9.5100e-003**	**0.0000**	**9.5100e-003**	**9.5100e-003**	**0.0000**	**14.7385**	**14.7385**	**4.6400e-003**	**2.3000e-004**	**14.9241**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	2/14/2023	5	10	
2	Grading	Grading	2/15/2023	3/28/2023	5	30	
3	Building Construction	Building Construction	3/29/2023	5/21/2024	5	300	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Paving	Paving	5/22/2024	6/18/2024	5	20	
5	Architectural Coating	Architectural Coating	6/19/2024	7/16/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 8.46

Residential Indoor: 516,081; Residential Outdoor: 172,027; Non-Residential Indoor: 8,997; Non-Residential Outdoor: 2,999; Striped Parking Area: 14,942 (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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	436.00	130.00	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	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0983**	**6.3300e-003**	**0.1046**	**0.0505**	**5.8200e-003**	**0.0563**	**0.0000**	**16.7254**	**16.7254**	**5.4100e-003**	**0.0000**	**16.8606**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.6000e-004	1.7000e-004	2.0500e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5633	0.5633	2.0000e-005	2.0000e-005	0.5686
Total	**2.6000e-004**	**1.7000e-004**	**2.0500e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5633**	**0.5633**	**2.0000e-005**	**2.0000e-005**	**0.5686**

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					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0442**	**6.3300e-003**	**0.0506**	**0.0227**	**5.8200e-003**	**0.0286**	**0.0000**	**16.7253**	**16.7253**	**5.4100e-003**	**0.0000**	**16.8606**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.6000e-004	1.7000e-004	2.0500e-003	1.0000e-005	7.2000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5633	0.5633	2.0000e-005	2.0000e-005	0.5686
Total	**2.6000e-004**	**1.7000e-004**	**2.0500e-003**	**1.0000e-005**	**7.2000e-004**	**0.0000**	**7.2000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5633**	**0.5633**	**2.0000e-005**	**2.0000e-005**	**0.5686**

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					0.1381	0.0000	0.1381	0.0548	0.0000	0.0548	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8028	81.8028	0.0265	0.0000	82.4642
Total	**0.0498**	**0.5177**	**0.4208**	**9.3000e-004**	**0.1381**	**0.0214**	**0.1594**	**0.0548**	**0.0197**	**0.0745**	**0.0000**	**81.8028**	**81.8028**	**0.0265**	**0.0000**	**82.4642**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.7000e-004	5.8000e-004	6.8200e-003	2.0000e-005	2.3900e-003	1.0000e-005	2.4000e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8777	1.8777	6.0000e-005	5.0000e-005	1.8952
Total	**8.7000e-004**	**5.8000e-004**	**6.8200e-003**	**2.0000e-005**	**2.3900e-003**	**1.0000e-005**	**2.4000e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8777**	**1.8777**	**6.0000e-005**	**5.0000e-005**	**1.8952**

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					0.0621	0.0000	0.0621	0.0247	0.0000	0.0247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0498	0.5177	0.4208	9.3000e-004		0.0214	0.0214		0.0197	0.0197	0.0000	81.8027	81.8027	0.0265	0.0000	82.4641
Total	**0.0498**	**0.5177**	**0.4208**	**9.3000e-004**	**0.0621**	**0.0214**	**0.0835**	**0.0247**	**0.0197**	**0.0443**	**0.0000**	**81.8027**	**81.8027**	**0.0265**	**0.0000**	**82.4641**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.7000e-004	5.8000e-004	6.8200e-003	2.0000e-005	2.3900e-003	1.0000e-005	2.4000e-003	6.4000e-004	1.0000e-005	6.5000e-004	0.0000	1.8777	1.8777	6.0000e-005	5.0000e-005	1.8952
Total	**8.7000e-004**	**5.8000e-004**	**6.8200e-003**	**2.0000e-005**	**2.3900e-003**	**1.0000e-005**	**2.4000e-003**	**6.4000e-004**	**1.0000e-005**	**6.5000e-004**	**0.0000**	**1.8777**	**1.8777**	**6.0000e-005**	**5.0000e-005**	**1.8952**

3.4 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	0.1557	1.4241	1.6082	2.6700e-003		0.0693	0.0693		0.0652	0.0652	0.0000	229.4867	229.4867	0.0546	0.0000	230.8515
Total	**0.1557**	**1.4241**	**1.6082**	**2.6700e-003**		**0.0693**	**0.0693**		**0.0652**	**0.0652**	**0.0000**	**229.4867**	**229.4867**	**0.0546**	**0.0000**	**230.8515**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0136	0.5694	0.1676	2.5800e-003	0.0851	3.6400e-003	0.0887	0.0246	3.4800e-003	0.0281	0.0000	247.9657	247.9657	1.2200e-003	0.0375	259.1676
Worker	0.1254	0.0830	0.9819	2.9500e-003	0.3438	1.7000e-003	0.3455	0.0914	1.5600e-003	0.0930	0.0000	270.1672	270.1672	8.2200e-003	7.7600e-003	272.6841
Total	**0.1389**	**0.6524**	**1.1494**	**5.5300e-003**	**0.4289**	**5.3400e-003**	**0.4342**	**0.1160**	**5.0400e-003**	**0.1210**	**0.0000**	**518.1329**	**518.1329**	**9.4400e-003**	**0.0453**	**531.8517**

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	0.1557	1.4241	1.6082	2.6700e-003		0.0693	0.0693		0.0652	0.0652	0.0000	229.4864	229.4864	0.0546	0.0000	230.8512
Total	**0.1557**	**1.4241**	**1.6082**	**2.6700e-003**		**0.0693**	**0.0693**		**0.0652**	**0.0652**	**0.0000**	**229.4864**	**229.4864**	**0.0546**	**0.0000**	**230.8512**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	0.0136	0.5694	0.1676	2.5800e-003	0.0851	3.6400e-003	0.0887	0.0246	3.4800e-003	0.0281	0.0000	247.9657	247.9657	1.2200e-003	0.0375	259.1676
Worker	0.1254	0.0830	0.9819	2.9500e-003	0.3438	1.7000e-003	0.3455	0.0914	1.5600e-003	0.0930	0.0000	270.1672	270.1672	8.2200e-003	7.7600e-003	272.6841
Total	**0.1389**	**0.6524**	**1.1494**	**5.5300e-003**	**0.4289**	**5.3400e-003**	**0.4342**	**0.1160**	**5.0400e-003**	**0.1210**	**0.0000**	**518.1329**	**518.1329**	**9.4400e-003**	**0.0453**	**531.8517**

3.4 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	0.0751	0.6856	0.8245	1.3700e-003		0.0313	0.0313		0.0294	0.0294	0.0000	118.2430	118.2430	0.0280	0.0000	118.9421
Total	**0.0751**	**0.6856**	**0.8245**	**1.3700e-003**		**0.0313**	**0.0313**		**0.0294**	**0.0294**	**0.0000**	**118.2430**	**118.2430**	**0.0280**	**0.0000**	**118.9421**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	6.8300e-003	0.2935	0.0846	1.3100e-003	0.0438	1.8900e-003	0.0457	0.0127	1.8100e-003	0.0145	0.0000	125.7555	125.7555	6.0000e-004	0.0190	131.4296
Worker	0.0596	0.0375	0.4677	1.4700e-003	0.1771	8.2000e-004	0.1779	0.0471	7.6000e-004	0.0479	0.0000	134.3525	134.3525	3.8000e-003	3.6900e-003	135.5465
Total	**0.0664**	**0.3310**	**0.5523**	**2.7800e-003**	**0.2209**	**2.7100e-003**	**0.2237**	**0.0598**	**2.5700e-003**	**0.0623**	**0.0000**	**260.1080**	**260.1080**	**4.4000e-003**	**0.0227**	**266.9760**

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	0.0751	0.6856	0.8245	1.3700e-003		0.0313	0.0313		0.0294	0.0294	0.0000	118.2429	118.2429	0.0280	0.0000	118.9419
Total	**0.0751**	**0.6856**	**0.8245**	**1.3700e-003**		**0.0313**	**0.0313**		**0.0294**	**0.0294**	**0.0000**	**118.2429**	**118.2429**	**0.0280**	**0.0000**	**118.9419**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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	6.8300e-003	0.2935	0.0846	1.3100e-003	0.0438	1.8900e-003	0.0457	0.0127	1.8100e-003	0.0145	0.0000	125.7555	125.7555	6.0000e-004	0.0190	131.4296
Worker	0.0596	0.0375	0.4677	1.4700e-003	0.1771	8.2000e-004	0.1779	0.0471	7.6000e-004	0.0479	0.0000	134.3525	134.3525	3.8000e-003	3.6900e-003	135.5465
Total	**0.0664**	**0.3310**	**0.5523**	**2.7800e-003**	**0.2209**	**2.7100e-003**	**0.2237**	**0.0598**	**2.5700e-003**	**0.0623**	**0.0000**	**260.1080**	**260.1080**	**4.4000e-003**	**0.0227**	**266.9760**

3.5 Paving - 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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0210**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.0000e-004	2.5000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9063	0.9063	3.0000e-005	2.0000e-005	0.9144
Total	**4.0000e-004**	**2.5000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9063**	**0.9063**	**3.0000e-005**	**2.0000e-005**	**0.9144**

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	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	0.0111					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0210**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	4.0000e-004	2.5000e-004	3.1500e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9063	0.9063	3.0000e-005	2.0000e-005	0.9144
Total	**4.0000e-004**	**2.5000e-004**	**3.1500e-003**	**1.0000e-005**	**1.1900e-003**	**1.0000e-005**	**1.2000e-003**	**3.2000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9063**	**0.9063**	**3.0000e-005**	**2.0000e-005**	**0.9144**

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	0.8632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**0.8650**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.3300e-003	1.4700e-003	0.0183	6.0000e-005	6.9300e-003	3.0000e-005	6.9600e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.2566	5.2566	1.5000e-004	1.4000e-004	5.3034
Total	**2.3300e-003**	**1.4700e-003**	**0.0183**	**6.0000e-005**	**6.9300e-003**	**3.0000e-005**	**6.9600e-003**	**1.8400e-003**	**3.0000e-005**	**1.8700e-003**	**0.0000**	**5.2566**	**5.2566**	**1.5000e-004**	**1.4000e-004**	**5.3034**

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	0.8632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**0.8650**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.3300e-003	1.4700e-003	0.0183	6.0000e-005	6.9300e-003	3.0000e-005	6.9600e-003	1.8400e-003	3.0000e-005	1.8700e-003	0.0000	5.2566	5.2566	1.5000e-004	1.4000e-004	5.3034
Total	**2.3300e-003**	**1.4700e-003**	**0.0183**	**6.0000e-005**	**6.9300e-003**	**3.0000e-005**	**6.9600e-003**	**1.8400e-003**	**3.0000e-005**	**1.8700e-003**	**0.0000**	**5.2566**	**5.2566**	**1.5000e-004**	**1.4000e-004**	**5.3034**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

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	11.9300	11.9300	1.9300e-003	2.3000e-004	12.0480
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.9300	11.9300	1.9300e-003	2.3000e-004	12.0480
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	128940	11.9300	1.9300e-003	2.3000e-004	12.0480
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**11.9300**	**1.9300e-003**	**2.3000e-004**	**12.0480**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	128940	11.9300	1.9300e-003	2.3000e-004	12.0480
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**11.9300**	**1.9300e-003**	**2.3000e-004**	**12.0480**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.3481	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761
Unmitigated	1.3481	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761

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	0.2511					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0519	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761
Total	**1.3481**	**0.0198**	**1.7179**	**9.0000e-005**		**9.5100e-003**	**9.5100e-003**		**9.5100e-003**	**9.5100e-003**	**0.0000**	**2.8085**	**2.8085**	**2.7100e-003**	**0.0000**	**2.8761**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2511					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0451					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0519	0.0198	1.7179	9.0000e-005		9.5100e-003	9.5100e-003		9.5100e-003	9.5100e-003	0.0000	2.8085	2.8085	2.7100e-003	0.0000	2.8761
Total	**1.3481**	**0.0198**	**1.7179**	**9.0000e-005**		**9.5100e-003**	**9.5100e-003**		**9.5100e-003**	**9.5100e-003**	**0.0000**	**2.8085**	**2.8085**	**2.7100e-003**	**0.0000**	**2.8761**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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 Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 1 Construction Run

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	368.40	1000sqft	8.46	368,399.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	231.00	Dwelling Unit	3.39	254,855.00	733

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 9

Construction Phase - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water And Wastewater - note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	22,104.00	14,942.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	127.05	0.00
tblFireplaces	NumberNoFireplace	103.95	0.00
tblLandUse	LandUseSquareFeet	368,400.00	368,399.00
tblLandUse	LandUseSquareFeet	231,000.00	254,855.00
tblLandUse	LotAcreage	6.08	3.39
tblSolidWaste	SolidWasteGenerationRate	106.26	0.00
tblSolidWaste	SolidWasteGenerationRate	0.54	0.00
tblSolidWaste	SolidWasteGenerationRate	11.40	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWater	IndoorWaterUseRate	15,050,579.92	0.00
tblWater	IndoorWaterUseRate	118,286.29	0.00
tblWater	OutdoorWaterUseRate	9,488,409.08	0.00
tblWater	OutdoorWaterUseRate	7,446,758.44	0.00
tblWater	OutdoorWaterUseRate	72,498.05	0.00

2.0 Emissions Summary

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	3.3869	34.5505	29.0111	0.0851	19.8049	1.4253	21.0716	10.1417	1.3113	11.3071	0.0000	8,560.7980	8,560.7980	1.9482	0.4979	8,726.8584
2024	86.7604	19.6218	28.0368	0.0836	4.4627	0.6665	5.1291	1.2037	0.6272	1.8309	0.0000	8,405.1326	8,405.1326	0.7166	0.4847	8,566.9450
Maximum	**86.7604**	**34.5505**	**29.0111**	**0.0851**	**19.8049**	**1.4253**	**21.0716**	**10.1417**	**1.3113**	**11.3071**	**0.0000**	**8,560.7980**	**8,560.7980**	**1.9482**	**0.4979**	**8,726.8584**

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	3.3869	34.5505	29.0111	0.0851	8.9935	1.4253	10.2602	4.5853	1.3113	5.7507	0.0000	8,560.7980	8,560.7980	1.9482	0.4979	8,726.8584
2024	86.7604	19.6218	28.0368	0.0836	4.4627	0.6665	5.1291	1.2037	0.6272	1.8309	0.0000	8,405.1326	8,405.1326	0.7166	0.4847	8,566.9450
Maximum	**86.7604**	**34.5505**	**29.0111**	**0.0851**	**8.9935**	**1.4253**	**10.2602**	**4.5853**	**1.3113**	**5.7507**	**0.0000**	**8,560.7980**	**8,560.7980**	**1.9482**	**0.4979**	**8,726.8584**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.55	0.00	41.26	48.97	0.00	42.29	0.00	0.00	0.00	0.00	0.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2/1/2023	2/14/2023	5	10	
2	Grading	Grading	2/15/2023	3/28/2023	5	30	
3	Building Construction	Building Construction	3/29/2023	5/21/2024	5	300	
4	Paving	Paving	5/22/2024	6/18/2024	5	20	
5	Architectural Coating	Architectural Coating	6/19/2024	7/16/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 8.46

Residential Indoor: 516,081; Residential Outdoor: 172,027; Non-Residential Indoor: 8,997; Non-Residential Outdoor: 2,999; Striped Parking Area: 14,942 (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

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	436.00	130.00	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	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

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	0.0586	0.0314	0.4582	1.3300e-003	0.1479	7.1000e-004	0.1486	0.0392	6.5000e-004	0.0399		134.0433	134.0433	3.5700e-003	3.3400e-003	135.1286
Total	**0.0586**	**0.0314**	**0.4582**	**1.3300e-003**	**0.1479**	**7.1000e-004**	**0.1486**	**0.0392**	**6.5000e-004**	**0.0399**		**134.0433**	**134.0433**	**3.5700e-003**	**3.3400e-003**	**135.1286**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**8.8457**	**1.2660**	**10.1117**	**4.5461**	**1.1647**	**5.7108**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0586	0.0314	0.4582	1.3300e-003	0.1479	7.1000e-004	0.1486	0.0392	6.5000e-004	0.0399		134.0433	134.0433	3.5700e-003	3.3400e-003	135.1286
Total	**0.0586**	**0.0314**	**0.4582**	**1.3300e-003**	**0.1479**	**7.1000e-004**	**0.1486**	**0.0392**	**6.5000e-004**	**0.0399**		**134.0433**	**134.0433**	**3.5700e-003**	**3.3400e-003**	**135.1286**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

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	0.0651	0.0349	0.5092	1.4700e-003	0.1643	7.9000e-004	0.1651	0.0436	7.2000e-004	0.0443		148.9370	148.9370	3.9700e-003	3.7100e-003	150.1429
Total	**0.0651**	**0.0349**	**0.5092**	**1.4700e-003**	**0.1643**	**7.9000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**148.9370**	**148.9370**	**3.9700e-003**	**3.7100e-003**	**150.1429**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**4.1416**	**1.4245**	**5.5661**	**1.6442**	**1.3105**	**2.9547**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

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	0.0651	0.0349	0.5092	1.4700e-003	0.1643	7.9000e-004	0.1651	0.0436	7.2000e-004	0.0443		148.9370	148.9370	3.9700e-003	3.7100e-003	150.1429
Total	**0.0651**	**0.0349**	**0.5092**	**1.4700e-003**	**0.1643**	**7.9000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**148.9370**	**148.9370**	**3.9700e-003**	**3.7100e-003**	**150.1429**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

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	0.1416	5.5068	1.6677	0.0261	0.8810	0.0367	0.9177	0.2537	0.0351	0.2888		2,758.7623	2,758.7623	0.0138	0.4169	2,883.3373
Worker	1.4196	0.7603	11.0994	0.0321	3.5816	0.0171	3.5988	0.9500	0.0158	0.9658		3,246.8257	3,246.8257	0.0864	0.0810	3,273.1151
Total	**1.5612**	**6.2672**	**12.7671**	**0.0582**	**4.4626**	**0.0539**	**4.5165**	**1.2037**	**0.0509**	**1.2546**		**6,005.5880**	**6,005.5880**	**0.1002**	**0.4979**	**6,156.4524**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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	0.1416	5.5068	1.6677	0.0261	0.8810	0.0367	0.9177	0.2537	0.0351	0.2888		2,758.7623	2,758.7623	0.0138	0.4169	2,883.3373
Worker	1.4196	0.7603	11.0994	0.0321	3.5816	0.0171	3.5988	0.9500	0.0158	0.9658		3,246.8257	3,246.8257	0.0864	0.0810	3,273.1151
Total	**1.5612**	**6.2672**	**12.7671**	**0.0582**	**4.4626**	**0.0539**	**4.5165**	**1.2037**	**0.0509**	**1.2546**		**6,005.5880**	**6,005.5880**	**0.1002**	**0.4979**	**6,156.4524**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

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	0.1383	5.5101	1.6348	0.0257	0.8810	0.0370	0.9180	0.2537	0.0354	0.2891		2,715.8910	2,715.8910	0.0132	0.4100	2,838.3847
Worker	1.3073	0.6679	10.2352	0.0310	3.5816	0.0161	3.5978	0.9500	0.0149	0.9649		3,133.5428	3,133.5428	0.0773	0.0748	3,157.7526
Total	**1.4456**	**6.1780**	**11.8700**	**0.0567**	**4.4627**	**0.0532**	**4.5158**	**1.2037**	**0.0503**	**1.2540**		**5,849.4337**	**5,849.4337**	**0.0904**	**0.4847**	**5,996.1373**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.1383	5.5101	1.6348	0.0257	0.8810	0.0370	0.9180	0.2537	0.0354	0.2891		2,715.8910	2,715.8910	0.0132	0.4100	2,838.3847
Worker	1.3073	0.6679	10.2352	0.0310	3.5816	0.0161	3.5978	0.9500	0.0149	0.9649		3,133.5428	3,133.5428	0.0773	0.0748	3,157.7526
Total	**1.4456**	**6.1780**	**11.8700**	**0.0567**	**4.4627**	**0.0532**	**4.5158**	**1.2037**	**0.0503**	**1.2540**		**5,849.4337**	**5,849.4337**	**0.0904**	**0.4847**	**5,996.1373**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.1083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0964**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

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	0.0450	0.0230	0.3521	1.0700e-003	0.1232	5.6000e-004	0.1238	0.0327	5.1000e-004	0.0332		107.8054	107.8054	2.6600e-003	2.5700e-003	108.6383
Total	**0.0450**	**0.0230**	**0.3521**	**1.0700e-003**	**0.1232**	**5.6000e-004**	**0.1238**	**0.0327**	**5.1000e-004**	**0.0332**		**107.8054**	**107.8054**	**2.6600e-003**	**2.5700e-003**	**108.6383**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.1083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0964**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

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	0.0450	0.0230	0.3521	1.0700e-003	0.1232	5.6000e-004	0.1238	0.0327	5.1000e-004	0.0332		107.8054	107.8054	2.6600e-003	2.5700e-003	108.6383
Total	**0.0450**	**0.0230**	**0.3521**	**1.0700e-003**	**0.1232**	**5.6000e-004**	**0.1238**	**0.0327**	**5.1000e-004**	**0.0332**		**107.8054**	**107.8054**	**2.6600e-003**	**2.5700e-003**	**108.6383**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	86.3188					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	**86.4995**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

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	0.2609	0.1333	2.0423	6.1900e-003	0.7147	3.2200e-003	0.7179	0.1896	2.9600e-003	0.1925		625.2712	625.2712	0.0154	0.0149	630.1020
Total	**0.2609**	**0.1333**	**2.0423**	**6.1900e-003**	**0.7147**	**3.2200e-003**	**0.7179**	**0.1896**	**2.9600e-003**	**0.1925**		**625.2712**	**625.2712**	**0.0154**	**0.0149**	**630.1020**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

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	86.3188					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	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**86.4995**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

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	0.2609	0.1333	2.0423	6.1900e-003	0.7147	3.2200e-003	0.7179	0.1896	2.9600e-003	0.1925		625.2712	625.2712	0.0154	0.0149	630.1020
Total	**0.2609**	**0.1333**	**2.0423**	**6.1900e-003**	**0.7147**	**3.2200e-003**	**0.7179**	**0.1896**	**2.9600e-003**	**0.1925**		**625.2712**	**625.2712**	**0.0154**	**0.0149**	**630.1020**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Prose Manteca Phase 1 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Unmitigated	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265

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	1.3757					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5763	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3980	34.3980	0.0331		35.2265
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**		**0.1057**	**0.1057**		**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

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	1.3757					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5763	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3980	34.3980	0.0331		35.2265
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**		**0.1057**	**0.1057**		**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 1 Construction Run

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	368.40	1000sqft	8.46	368,399.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	231.00	Dwelling Unit	3.39	254,855.00	733

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 9

Construction Phase - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water And Wastewater - note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	22,104.00	14,942.00
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	127.05	0.00
tblFireplaces	NumberNoFireplace	103.95	0.00
tblLandUse	LandUseSquareFeet	368,400.00	368,399.00
tblLandUse	LandUseSquareFeet	231,000.00	254,855.00
tblLandUse	LotAcreage	6.08	3.39
tblSolidWaste	SolidWasteGenerationRate	106.26	0.00
tblSolidWaste	SolidWasteGenerationRate	0.54	0.00
tblSolidWaste	SolidWasteGenerationRate	11.40	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblWater	IndoorWaterUseRate	15,050,579.92	0.00
tblWater	IndoorWaterUseRate	118,286.29	0.00
tblWater	OutdoorWaterUseRate	9,488,409.08	0.00
tblWater	OutdoorWaterUseRate	7,446,758.44	0.00
tblWater	OutdoorWaterUseRate	72,498.05	0.00

2.0 Emissions Summary

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	3.3828	34.5578	28.5095	0.0821	19.8049	1.4253	21.0716	10.1417	1.3113	11.3071	0.0000	8,252.9963	8,252.9963	1.9487	0.5101	8,422.9834
2024	86.7452	20.1429	27.1157	0.0807	4.4627	0.6666	5.1292	1.2037	0.6273	1.8310	0.0000	8,109.0754	8,109.0754	0.7170	0.4960	8,274.5167
Maximum	**86.7452**	**34.5578**	**28.5095**	**0.0821**	**19.8049**	**1.4253**	**21.0716**	**10.1417**	**1.3113**	**11.3071**	**0.0000**	**8,252.9963**	**8,252.9963**	**1.9487**	**0.5101**	**8,422.9834**

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	3.3828	34.5578	28.5095	0.0821	8.9935	1.4253	10.2602	4.5853	1.3113	5.7507	0.0000	8,252.9963	8,252.9963	1.9487	0.5101	8,422.9834
2024	86.7452	20.1429	27.1157	0.0807	4.4627	0.6666	5.1292	1.2037	0.6273	1.8310	0.0000	8,109.0754	8,109.0754	0.7170	0.4960	8,274.5167
Maximum	**86.7452**	**34.5578**	**28.5095**	**0.0821**	**8.9935**	**1.4253**	**10.2602**	**4.5853**	**1.3113**	**5.7507**	**0.0000**	**8,252.9963**	**8,252.9963**	**1.9487**	**0.5101**	**8,422.9834**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	44.55	0.00	41.26	48.97	0.00	42.29	0.00	0.00	0.00	0.00	0.00	0.00

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2/1/2023	2/14/2023	5	10	
2	Grading	Grading	2/15/2023	3/28/2023	5	30	
3	Building Construction	Building Construction	3/29/2023	5/21/2024	5	300	
4	Paving	Paving	5/22/2024	6/18/2024	5	20	
5	Architectural Coating	Architectural Coating	6/19/2024	7/16/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 8.46

Residential Indoor: 516,081; Residential Outdoor: 172,027; Non-Residential Indoor: 8,997; Non-Residential Outdoor: 2,999; Striped Parking Area: 14,942 (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

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	436.00	130.00	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	87.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

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	0.0550	0.0380	0.4125	1.2000e-003	0.1479	7.1000e-004	0.1486	0.0392	6.5000e-004	0.0399		121.1190	121.1190	4.0600e-003	3.8000e-003	122.3531
Total	**0.0550**	**0.0380**	**0.4125**	**1.2000e-003**	**0.1479**	**7.1000e-004**	**0.1486**	**0.0392**	**6.5000e-004**	**0.0399**		**121.1190**	**121.1190**	**4.0600e-003**	**3.8000e-003**	**122.3531**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	2.6595	27.5242	18.2443	0.0381		1.2660	1.2660		1.1647	1.1647	0.0000	3,687.3081	3,687.3081	1.1926		3,717.1219
Total	**2.6595**	**27.5242**	**18.2443**	**0.0381**	**8.8457**	**1.2660**	**10.1117**	**4.5461**	**1.1647**	**5.7108**	**0.0000**	**3,687.3081**	**3,687.3081**	**1.1926**		**3,717.1219**

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	0.0550	0.0380	0.4125	1.2000e-003	0.1479	7.1000e-004	0.1486	0.0392	6.5000e-004	0.0399		121.1190	121.1190	4.0600e-003	3.8000e-003	122.3531
Total	**0.0550**	**0.0380**	**0.4125**	**1.2000e-003**	**0.1479**	**7.1000e-004**	**0.1486**	**0.0392**	**6.5000e-004**	**0.0399**		**121.1190**	**121.1190**	**4.0600e-003**	**3.8000e-003**	**122.3531**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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**

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	0.0611	0.0422	0.4584	1.3300e-003	0.1643	7.9000e-004	0.1651	0.0436	7.2000e-004	0.0443		134.5767	134.5767	4.5100e-003	4.2200e-003	135.9479
Total	**0.0611**	**0.0422**	**0.4584**	**1.3300e-003**	**0.1643**	**7.9000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**134.5767**	**134.5767**	**4.5100e-003**	**4.2200e-003**	**135.9479**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105	0.0000	6,011.4777	6,011.4777	1.9442		6,060.0836
Total	**3.3217**	**34.5156**	**28.0512**	**0.0621**	**4.1416**	**1.4245**	**5.5661**	**1.6442**	**1.3105**	**2.9547**	**0.0000**	**6,011.4777**	**6,011.4777**	**1.9442**		**6,060.0836**

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	0.0611	0.0422	0.4584	1.3300e-003	0.1643	7.9000e-004	0.1651	0.0436	7.2000e-004	0.0443		134.5767	134.5767	4.5100e-003	4.2200e-003	135.9479
Total	**0.0611**	**0.0422**	**0.4584**	**1.3300e-003**	**0.1643**	**7.9000e-004**	**0.1651**	**0.0436**	**7.2000e-004**	**0.0443**		**134.5767**	**134.5767**	**4.5100e-003**	**4.2200e-003**	**135.9479**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

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	0.1334	5.8876	1.7242	0.0261	0.8810	0.0368	0.9178	0.2537	0.0352	0.2889		2,764.0148	2,764.0148	0.0134	0.4180	2,888.9142
Worker	1.3322	0.9207	9.9923	0.0290	3.5816	0.0171	3.5988	0.9500	0.0158	0.9658		2,933.7716	2,933.7716	0.0983	0.0921	2,963.6631
Total	**1.4655**	**6.8083**	**11.7165**	**0.0552**	**4.4626**	**0.0540**	**4.5166**	**1.2037**	**0.0510**	**1.2547**		**5,697.7864**	**5,697.7864**	**0.1117**	**0.5101**	**5,852.5773**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	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**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

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	0.1334	5.8876	1.7242	0.0261	0.8810	0.0368	0.9178	0.2537	0.0352	0.2889		2,764.0148	2,764.0148	0.0134	0.4180	2,888.9142
Worker	1.3322	0.9207	9.9923	0.0290	3.5816	0.0171	3.5988	0.9500	0.0158	0.9658		2,933.7716	2,933.7716	0.0983	0.0921	2,963.6631
Total	**1.4655**	**6.8083**	**11.7165**	**0.0552**	**4.4626**	**0.0540**	**4.5166**	**1.2037**	**0.0510**	**1.2547**		**5,697.7864**	**5,697.7864**	**0.1117**	**0.5101**	**5,852.5773**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 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**

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	0.1300	5.8907	1.6911	0.0257	0.8810	0.0372	0.9182	0.2537	0.0355	0.2892		2,721.0948	2,721.0948	0.0128	0.4110	2,843.9028
Worker	1.2310	0.8084	9.2578	0.0280	3.5816	0.0161	3.5978	0.9500	0.0149	0.9649		2,832.2817	2,832.2817	0.0884	0.0850	2,859.8063
Total	**1.3611**	**6.6992**	**10.9488**	**0.0538**	**4.4627**	**0.0533**	**4.5159**	**1.2037**	**0.0504**	**1.2541**		**5,553.3765**	**5,553.3765**	**0.1011**	**0.4960**	**5,703.7090**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

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	0.1300	5.8907	1.6911	0.0257	0.8810	0.0372	0.9182	0.2537	0.0355	0.2892		2,721.0948	2,721.0948	0.0128	0.4110	2,843.9028
Worker	1.2310	0.8084	9.2578	0.0280	3.5816	0.0161	3.5978	0.9500	0.0149	0.9649		2,832.2817	2,832.2817	0.0884	0.0850	2,859.8063
Total	**1.3611**	**6.6992**	**10.9488**	**0.0538**	**4.4627**	**0.0533**	**4.5159**	**1.2037**	**0.0504**	**1.2541**		**5,553.3765**	**5,553.3765**	**0.1011**	**0.4960**	**5,703.7090**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.1083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0964**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

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	0.0424	0.0278	0.3185	9.6000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.1000e-004	0.0332		97.4409	97.4409	3.0400e-003	2.9200e-003	98.3878
Total	**0.0424**	**0.0278**	**0.3185**	**9.6000e-004**	**0.1232**	**5.6000e-004**	**0.1238**	**0.0327**	**5.1000e-004**	**0.0332**		**97.4409**	**97.4409**	**3.0400e-003**	**2.9200e-003**	**98.3878**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

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	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	1.1083					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.0964**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

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	0.0424	0.0278	0.3185	9.6000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.1000e-004	0.0332		97.4409	97.4409	3.0400e-003	2.9200e-003	98.3878
Total	**0.0424**	**0.0278**	**0.3185**	**9.6000e-004**	**0.1232**	**5.6000e-004**	**0.1238**	**0.0327**	**5.1000e-004**	**0.0332**		**97.4409**	**97.4409**	**3.0400e-003**	**2.9200e-003**	**98.3878**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	86.3188					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	**86.4995**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

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	0.2456	0.1613	1.8473	5.5900e-003	0.7147	3.2200e-003	0.7179	0.1896	2.9600e-003	0.1925		565.1571	565.1571	0.0176	0.0170	570.6494
Total	**0.2456**	**0.1613**	**1.8473**	**5.5900e-003**	**0.7147**	**3.2200e-003**	**0.7179**	**0.1896**	**2.9600e-003**	**0.1925**		**565.1571**	**565.1571**	**0.0176**	**0.0170**	**570.6494**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

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	86.3188					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	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**86.4995**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

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	0.2456	0.1613	1.8473	5.5900e-003	0.7147	3.2200e-003	0.7179	0.1896	2.9600e-003	0.1925		565.1571	565.1571	0.0176	0.0170	570.6494
Total	**0.2456**	**0.1613**	**1.8473**	**5.5900e-003**	**0.7147**	**3.2200e-003**	**0.7179**	**0.1896**	**2.9600e-003**	**0.1925**		**565.1571**	**565.1571**	**0.0176**	**0.0170**	**570.6494**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Prose Manteca Phase 1 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265
Unmitigated	7.6788	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057	0.0000	34.3980	34.3980	0.0331	0.0000	35.2265

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	1.3757					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5763	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3980	34.3980	0.0331		35.2265
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**		**0.1057**	**0.1057**		**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.3757					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.7268					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.5763	0.2198	19.0882	1.0100e-003		0.1057	0.1057		0.1057	0.1057		34.3980	34.3980	0.0331		35.2265
Total	**7.6788**	**0.2198**	**19.0882**	**1.0100e-003**		**0.1057**	**0.1057**		**0.1057**	**0.1057**	**0.0000**	**34.3980**	**34.3980**	**0.0331**	**0.0000**	**35.2265**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 2 Construction Run

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	189.00	Dwelling Unit	0.00	208,518.00	600

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2025
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 - Note 9

Construction Phase - Note 9

Off-road Equipment - Note 9

Off-road Equipment - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Water And Wastewater - note 2

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	140750	127575
tblAreaCoating	Area_Residential_Interior	422249	382725
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	0.00	18.00
tblConstructionPhase	NumDays	0.00	230.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	103.95	0.00
tblFireplaces	NumberNoFireplace	18.90	0.00
tblFireplaces	NumberWood	66.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	208,518.00
tblLandUse	LotAcreage	4.97	0.00
tblSolidWaste	SolidWasteGenerationRate	86.94	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblWater	IndoorWaterUseRate	12,314,110.84	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	7,763,243.79	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	0.1114	0.8735	1.1570	2.3900e-003	0.0729	0.0374	0.1104	0.0196	0.0352	0.0548	0.0000	211.1743	211.1743	0.0344	4.7900e-003	213.4618
2025	0.7494	0.7562	1.0656	2.2100e-003	0.0688	0.0301	0.0989	0.0185	0.0283	0.0468	0.0000	195.4305	195.4305	0.0314	4.2800e-003	197.4913
Maximum	**0.7494**	**0.8735**	**1.1570**	**2.3900e-003**	**0.0729**	**0.0374**	**0.1104**	**0.0196**	**0.0352**	**0.0548**	**0.0000**	**211.1743**	**211.1743**	**0.0344**	**4.7900e-003**	**213.4618**

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					
2024	0.1114	0.8735	1.1570	2.3900e-003	0.0729	0.0374	0.1104	0.0196	0.0352	0.0548	0.0000	211.1741	211.1741	0.0344	4.7900e-003	213.4617
2025	0.7494	0.7562	1.0656	2.2100e-003	0.0688	0.0301	0.0989	0.0185	0.0283	0.0468	0.0000	195.4303	195.4303	0.0314	4.2800e-003	197.4911
Maximum	**0.7494**	**0.8735**	**1.1570**	**2.3900e-003**	**0.0729**	**0.0374**	**0.1104**	**0.0196**	**0.0352**	**0.0548**	**0.0000**	**211.1741**	**211.1741**	**0.0344**	**4.7900e-003**	**213.4617**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.02**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-17-2024**	**10-16-2024**	0.5393	0.5393
2	**10-17-2024**	**1-16-2025**	0.5349	0.5349
3	**1-17-2025**	**4-16-2025**	0.4927	0.4927
4	**4-17-2025**	**7-16-2025**	0.8952	0.8952
		Highest	0.8952	0.8952

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	1.0339	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0339**	**0.0162**	**1.4020**	**7.0000e-005**	**0.0000**	**7.7800e-003**	**7.7800e-003**	**0.0000**	**7.7800e-003**	**7.7800e-003**	**0.0000**	**2.2923**	**2.2923**	**2.2000e-003**	**0.0000**	**2.3472**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.0339	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.0339**	**0.0162**	**1.4020**	**7.0000e-005**	**0.0000**	**7.7800e-003**	**7.7800e-003**	**0.0000**	**7.7800e-003**	**7.7800e-003**	**0.0000**	**2.2923**	**2.2923**	**2.2000e-003**	**0.0000**	**2.3472**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/17/2024	6/3/2025	5	230	
2	Architectural Coating	Architectural Coating	6/4/2025	6/27/2025	5	18	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 422,249; Residential Outdoor: 140,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Building Construction	9	136.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0883	0.8066	0.9700	1.6200e-003		0.0368	0.0368		0.0346	0.0346	0.0000	139.1095	139.1095	0.0329	0.0000	139.9319
Total	**0.0883**	**0.8066**	**0.9700**	**1.6200e-003**		**0.0368**	**0.0368**		**0.0346**	**0.0346**	**0.0000**	**139.1095**	**139.1095**	**0.0329**	**0.0000**	**139.9319**

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	1.2400e-003	0.0531	0.0153	2.4000e-004	7.9300e-003	3.4000e-004	8.2700e-003	2.2900e-003	3.3000e-004	2.6200e-003	0.0000	22.7612	22.7612	1.1000e-004	3.4400e-003	23.7882
Worker	0.0219	0.0138	0.1716	5.4000e-004	0.0650	3.0000e-004	0.0653	0.0173	2.8000e-004	0.0176	0.0000	49.3037	49.3037	1.4000e-003	1.3500e-003	49.7418
Total	**0.0231**	**0.0669**	**0.1870**	**7.8000e-004**	**0.0729**	**6.4000e-004**	**0.0736**	**0.0196**	**6.1000e-004**	**0.0202**	**0.0000**	**72.0648**	**72.0648**	**1.5100e-003**	**4.7900e-003**	**73.5300**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building Construction - 2024

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	0.8066	0.9700	1.6200e-003		0.0368	0.0368		0.0346	0.0346	0.0000	139.1093	139.1093	0.0329	0.0000	139.9317
Total	**0.0883**	**0.8066**	**0.9700**	**1.6200e-003**		**0.0368**	**0.0368**		**0.0346**	**0.0346**	**0.0000**	**139.1093**	**139.1093**	**0.0329**	**0.0000**	**139.9317**

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	1.2400e-003	0.0531	0.0153	2.4000e-004	7.9300e-003	3.4000e-004	8.2700e-003	2.2900e-003	3.3000e-004	2.6200e-003	0.0000	22.7612	22.7612	1.1000e-004	3.4400e-003	23.7882
Worker	0.0219	0.0138	0.1716	5.4000e-004	0.0650	3.0000e-004	0.0653	0.0173	2.8000e-004	0.0176	0.0000	49.3037	49.3037	1.4000e-003	1.3500e-003	49.7418
Total	**0.0231**	**0.0669**	**0.1870**	**7.8000e-004**	**0.0729**	**6.4000e-004**	**0.0736**	**0.0196**	**6.1000e-004**	**0.0202**	**0.0000**	**72.0648**	**72.0648**	**1.5100e-003**	**4.7900e-003**	**73.5300**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0752	0.6858	0.8847	1.4800e-003		0.0290	0.0290		0.0273	0.0273	0.0000	127.5557	127.5557	0.0300	0.0000	128.3053
Total	**0.0752**	**0.6858**	**0.8847**	**1.4800e-003**		**0.0290**	**0.0290**		**0.0273**	**0.0273**	**0.0000**	**127.5557**	**127.5557**	**0.0300**	**0.0000**	**128.3053**

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	1.1100e-003	0.0485	0.0138	2.1000e-004	7.2700e-003	3.1000e-004	7.5800e-003	2.1000e-003	3.0000e-004	2.4000e-003	0.0000	20.4934	20.4934	1.0000e-004	3.0900e-003	21.4167
Worker	0.0186	0.0112	0.1461	4.8000e-004	0.0596	2.6000e-004	0.0598	0.0158	2.4000e-004	0.0161	0.0000	43.6649	43.6649	1.1500e-003	1.1500e-003	44.0376
Total	**0.0197**	**0.0597**	**0.1599**	**6.9000e-004**	**0.0669**	**5.7000e-004**	**0.0674**	**0.0179**	**5.4000e-004**	**0.0185**	**0.0000**	**64.1583**	**64.1583**	**1.2500e-003**	**4.2400e-003**	**65.4543**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Building Construction - 2025

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	0.0752	0.6858	0.8847	1.4800e-003		0.0290	0.0290		0.0273	0.0273	0.0000	127.5556	127.5556	0.0300	0.0000	128.3052
Total	**0.0752**	**0.6858**	**0.8847**	**1.4800e-003**		**0.0290**	**0.0290**		**0.0273**	**0.0273**	**0.0000**	**127.5556**	**127.5556**	**0.0300**	**0.0000**	**128.3052**

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	1.1100e-003	0.0485	0.0138	2.1000e-004	7.2700e-003	3.1000e-004	7.5800e-003	2.1000e-003	3.0000e-004	2.4000e-003	0.0000	20.4934	20.4934	1.0000e-004	3.0900e-003	21.4167
Worker	0.0186	0.0112	0.1461	4.8000e-004	0.0596	2.6000e-004	0.0598	0.0158	2.4000e-004	0.0161	0.0000	43.6649	43.6649	1.1500e-003	1.1500e-003	44.0376
Total	**0.0197**	**0.0597**	**0.1599**	**6.9000e-004**	**0.0669**	**5.7000e-004**	**0.0674**	**0.0179**	**5.4000e-004**	**0.0185**	**0.0000**	**64.1583**	**64.1583**	**1.2500e-003**	**4.2400e-003**	**65.4543**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 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	0.6524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	**0.6539**	**0.0103**	**0.0163**	**3.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3011**

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	6.0000e-004	3.6000e-004	4.7500e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.4185	1.4185	4.0000e-005	4.0000e-005	1.4306
Total	**6.0000e-004**	**3.6000e-004**	**4.7500e-003**	**2.0000e-005**	**1.9400e-003**	**1.0000e-005**	**1.9400e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.4185**	**1.4185**	**4.0000e-005**	**4.0000e-005**	**1.4306**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Architectural Coating - 2025

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	0.6524					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.5400e-003	0.0103	0.0163	3.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	2.2979	2.2979	1.3000e-004	0.0000	2.3011
Total	**0.6539**	**0.0103**	**0.0163**	**3.0000e-005**		**4.6000e-004**	**4.6000e-004**		**4.6000e-004**	**4.6000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.3000e-004**	**0.0000**	**2.3011**

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	6.0000e-004	3.6000e-004	4.7500e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.2000e-004	0.0000	1.4185	1.4185	4.0000e-005	4.0000e-005	1.4306
Total	**6.0000e-004**	**3.6000e-004**	**4.7500e-003**	**2.0000e-005**	**1.9400e-003**	**1.0000e-005**	**1.9400e-003**	**5.1000e-004**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**1.4185**	**1.4185**	**4.0000e-005**	**4.0000e-005**	**1.4306**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.541920	0.052620	0.169871	0.146633	0.025153	0.006100	0.012627	0.016953	0.000467	0.000322	0.022878	0.001103	0.003353

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

Prose Manteca Phase 2 Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	1.0339	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472
Unmitigated	1.0339	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472

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	0.1774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0421	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472
Total	**1.0339**	**0.0162**	**1.4020**	**7.0000e-005**		**7.7800e-003**	**7.7800e-003**		**7.7800e-003**	**7.7800e-003**	**0.0000**	**2.2923**	**2.2923**	**2.2000e-003**	**0.0000**	**2.3472**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8144					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0421	0.0162	1.4020	7.0000e-005		7.7800e-003	7.7800e-003		7.7800e-003	7.7800e-003	0.0000	2.2923	2.2923	2.2000e-003	0.0000	2.3472
Total	**1.0339**	**0.0162**	**1.4020**	**7.0000e-005**		**7.7800e-003**	**7.7800e-003**		**7.7800e-003**	**7.7800e-003**	**0.0000**	**2.2923**	**2.2923**	**2.2000e-003**	**0.0000**	**2.3472**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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 Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 2 Construction Run

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	189.00	Dwelling Unit	0.00	208,518.00	600

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2025
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 - Note 9

Construction Phase - Note 9

Off-road Equipment - Note 9

Off-road Equipment - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Water And Wastewater - note 2

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	140750	127575
tblAreaCoating	Area_Residential_Interior	422249	382725
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	0.00	18.00
tblConstructionPhase	NumDays	0.00	230.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	103.95	0.00
tblFireplaces	NumberNoFireplace	18.90	0.00
tblFireplaces	NumberWood	66.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	208,518.00
tblLandUse	LotAcreage	4.97	0.00
tblSolidWaste	SolidWasteGenerationRate	86.94	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblWater	IndoorWaterUseRate	12,314,110.84	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	7,763,243.79	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	1.9006	14.4998	19.6110	0.0406	1.2528	0.6240	1.8768	0.3354	0.5870	0.9224	0.0000	3,950.9637	3,950.9637	0.6305	0.0864	3,992.4693
2025	72.7320	13.4995	19.2892	0.0402	1.2528	0.5380	1.7908	0.3354	0.5061	0.8415	0.0000	3,911.0106	3,911.0106	0.6246	0.0836	3,951.5251
Maximum	**72.7320**	**14.4998**	**19.6110**	**0.0406**	**1.2528**	**0.6240**	**1.8768**	**0.3354**	**0.5870**	**0.9224**	**0.0000**	**3,950.9637**	**3,950.9637**	**0.6305**	**0.0864**	**3,992.4693**

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					
2024	1.9006	14.4998	19.6110	0.0406	1.2528	0.6240	1.8768	0.3354	0.5870	0.9224	0.0000	3,950.9637	3,950.9637	0.6305	0.0864	3,992.4693
2025	72.7320	13.4995	19.2892	0.0402	1.2528	0.5380	1.7908	0.3354	0.5061	0.8415	0.0000	3,911.0106	3,911.0106	0.6246	0.0836	3,951.5251
Maximum	**72.7320**	**14.4998**	**19.6110**	**0.0406**	**1.2528**	**0.6240**	**1.8768**	**0.3354**	**0.5870**	**0.9224**	**0.0000**	**3,950.9637**	**3,950.9637**	**0.6305**	**0.0864**	**3,992.4693**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/17/2024	6/3/2025	5	230	
2	Architectural Coating	Architectural Coating	6/4/2025	6/27/2025	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 422,249; Residential Outdoor: 140,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Building Construction	9	136.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0213	0.8477	0.2515	3.9500e-003	0.1355	5.7000e-003	0.1412	0.0390	5.4500e-003	0.0445		417.8294	417.8294	2.0200e-003	0.0631	436.6746
Worker	0.4078	0.2083	3.1926	9.6700e-003	1.1172	5.0300e-003	1.1222	0.2963	4.6300e-003	0.3010		977.4354	977.4354	0.0241	0.0233	984.9870
Total	**0.4291**	**1.0561**	**3.4441**	**0.0136**	**1.2528**	**0.0107**	**1.2635**	**0.3354**	**0.0101**	**0.3455**		**1,395.2648**	**1,395.2648**	**0.0261**	**0.0864**	**1,421.6616**

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0213	0.8477	0.2515	3.9500e-003	0.1355	5.7000e-003	0.1412	0.0390	5.4500e-003	0.0445		417.8294	417.8294	2.0200e-003	0.0631	436.6746
Worker	0.4078	0.2083	3.1926	9.6700e-003	1.1172	5.0300e-003	1.1222	0.2963	4.6300e-003	0.3010		977.4354	977.4354	0.0241	0.0233	984.9870
Total	**0.4291**	**1.0561**	**3.4441**	**0.0136**	**1.2528**	**0.0107**	**1.2635**	**0.3354**	**0.0101**	**0.3455**		**1,395.2648**	**1,395.2648**	**0.0261**	**0.0864**	**1,421.6616**

3.2 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**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0208	0.8448	0.2472	3.8800e-003	0.1355	5.7000e-003	0.1412	0.0390	5.4500e-003	0.0445		410.3977	410.3977	1.9500e-003	0.0619	428.8818
Worker	0.3778	0.1850	2.9574	9.3400e-003	1.1172	4.7900e-003	1.1220	0.2963	4.4100e-003	0.3007		944.1386	944.1386	0.0217	0.0217	951.1452
Total	**0.3987**	**1.0298**	**3.2045**	**0.0132**	**1.2528**	**0.0105**	**1.2632**	**0.3354**	**9.8600e-003**	**0.3452**		**1,354.5363**	**1,354.5363**	**0.0236**	**0.0836**	**1,380.0271**

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	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**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0208	0.8448	0.2472	3.8800e-003	0.1355	5.7000e-003	0.1412	0.0390	5.4500e-003	0.0445		410.3977	410.3977	1.9500e-003	0.0619	428.8818
Worker	0.3778	0.1850	2.9574	9.3400e-003	1.1172	4.7900e-003	1.1220	0.2963	4.4100e-003	0.3007		944.1386	944.1386	0.0217	0.0217	951.1452
Total	**0.3987**	**1.0298**	**3.2045**	**0.0132**	**1.2528**	**0.0105**	**1.2632**	**0.3354**	**9.8600e-003**	**0.3452**		**1,354.5363**	**1,354.5363**	**0.0236**	**0.0836**	**1,380.0271**

3.3 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	72.4861					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	**72.6570**	**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 Not Applied

3.3 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	0.0750	0.0367	0.5871	1.8500e-003	0.2218	9.5000e-004	0.2228	0.0588	8.7000e-004	0.0597		187.4393	187.4393	4.3000e-003	4.3100e-003	188.8303
Total	**0.0750**	**0.0367**	**0.5871**	**1.8500e-003**	**0.2218**	**9.5000e-004**	**0.2228**	**0.0588**	**8.7000e-004**	**0.0597**		**187.4393**	**187.4393**	**4.3000e-003**	**4.3100e-003**	**188.8303**

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	72.4861					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	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**72.6570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**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 Not Applied

3.3 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	0.0750	0.0367	0.5871	1.8500e-003	0.2218	9.5000e-004	0.2228	0.0588	8.7000e-004	0.0597		187.4393	187.4393	4.3000e-003	4.3100e-003	188.8303
Total	**0.0750**	**0.0367**	**0.5871**	**1.8500e-003**	**0.2218**	**9.5000e-004**	**0.2228**	**0.0588**	**8.7000e-004**	**0.0597**		**187.4393**	**187.4393**	**4.3000e-003**	**4.3100e-003**	**188.8303**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.541920	0.052620	0.169871	0.146633	0.025153	0.006100	0.012627	0.016953	0.000467	0.000322	0.022878	0.001103	0.003353

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Unmitigated	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.9720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4677	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864		28.0764	28.0764	0.0269		28.7486
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**		**0.0864**	**0.0864**		**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

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	0.9720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4677	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864		28.0764	28.0764	0.0269		28.7486
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**		**0.0864**	**0.0864**		**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

7.0 Water Detail

7.1 Mitigation Measures Water

Prose Manteca Phase 2 Construction Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Phase 2 Construction Run

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	189.00	Dwelling Unit	0.00	208,518.00	600

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2025
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 - Note 9

Construction Phase - Note 9

Off-road Equipment - Note 9

Off-road Equipment - Note 9

Trips and VMT -

Architectural Coating - Note 10

Vehicle Trips - Note 2

Woodstoves - Note 2

Area Coating -

Energy Use - Note 2

Water And Wastewater - note 2

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	150.00	50.00
tblAreaCoating	Area_Residential_Exterior	140750	127575
tblAreaCoating	Area_Residential_Interior	422249	382725
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	0.00	18.00
tblConstructionPhase	NumDays	0.00	230.00
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24NG	2,687.00	0.00
tblEnergyUse	T24E	98.18	0.00
tblEnergyUse	T24NG	6,729.23	0.00
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	103.95	0.00
tblFireplaces	NumberNoFireplace	18.90	0.00
tblFireplaces	NumberWood	66.15	0.00
tblLandUse	LandUseSquareFeet	189,000.00	208,518.00
tblLandUse	LotAcreage	4.97	0.00
tblSolidWaste	SolidWasteGenerationRate	86.94	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblWater	IndoorWaterUseRate	12,314,110.84	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	7,763,243.79	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	0.00

2.0 Emissions Summary

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2024	1.8756	14.6022	19.3147	0.0397	1.2528	0.6241	1.8768	0.3354	0.5870	0.9224	0.0000	3,857.7929	3,857.7929	0.6339	0.0897	3,900.3808
2025	72.7278	13.5966	19.0263	0.0393	1.2528	0.5381	1.7908	0.3354	0.5061	0.8415	0.0000	3,821.2752	3,821.2752	0.6277	0.0867	3,862.7948
Maximum	**72.7278**	**14.6022**	**19.3147**	**0.0397**	**1.2528**	**0.6241**	**1.8768**	**0.3354**	**0.5870**	**0.9224**	**0.0000**	**3,857.7929**	**3,857.7929**	**0.6339**	**0.0897**	**3,900.3808**

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					
2024	1.8756	14.6022	19.3147	0.0397	1.2528	0.6241	1.8768	0.3354	0.5870	0.9224	0.0000	3,857.7929	3,857.7929	0.6339	0.0897	3,900.3808
2025	72.7278	13.5966	19.0263	0.0393	1.2528	0.5381	1.7908	0.3354	0.5061	0.8415	0.0000	3,821.2752	3,821.2752	0.6277	0.0867	3,862.7948
Maximum	**72.7278**	**14.6022**	**19.3147**	**0.0397**	**1.2528**	**0.6241**	**1.8768**	**0.3354**	**0.5870**	**0.9224**	**0.0000**	**3,857.7929**	**3,857.7929**	**0.6339**	**0.0897**	**3,900.3808**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/17/2024	6/3/2025	5	230	
2	Architectural Coating	Architectural Coating	6/4/2025	6/27/2025	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 422,249; Residential Outdoor: 140,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
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
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Building Construction	9	136.00	20.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0200	0.9063	0.2602	3.9600e-003	0.1355	5.7200e-003	0.1413	0.0390	5.4700e-003	0.0445		418.6300	418.6300	1.9600e-003	0.0632	437.5235
Worker	0.3840	0.2522	2.8878	8.7400e-003	1.1172	5.0300e-003	1.1222	0.2963	4.6300e-003	0.3010		883.4640	883.4640	0.0276	0.0265	892.0497
Total	**0.4040**	**1.1584**	**3.1479**	**0.0127**	**1.2528**	**0.0108**	**1.2635**	**0.3354**	**0.0101**	**0.3455**		**1,302.0940**	**1,302.0940**	**0.0295**	**0.0897**	**1,329.5732**

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	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769	0.0000	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**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0200	0.9063	0.2602	3.9600e-003	0.1355	5.7200e-003	0.1413	0.0390	5.4700e-003	0.0445		418.6300	418.6300	1.9600e-003	0.0632	437.5235
Worker	0.3840	0.2522	2.8878	8.7400e-003	1.1172	5.0300e-003	1.1222	0.2963	4.6300e-003	0.3010		883.4640	883.4640	0.0276	0.0265	892.0497
Total	**0.4040**	**1.1584**	**3.1479**	**0.0127**	**1.2528**	**0.0108**	**1.2635**	**0.3354**	**0.0101**	**0.3455**		**1,302.0940**	**1,302.0940**	**0.0295**	**0.0897**	**1,329.5732**

3.2 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**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0196	0.9031	0.2558	3.8900e-003	0.1355	5.7200e-003	0.1413	0.0390	5.4700e-003	0.0445		411.1879	411.1879	1.8900e-003	0.0620	429.7190
Worker	0.3568	0.2238	2.6859	8.4500e-003	1.1172	4.7900e-003	1.1220	0.2963	4.4100e-003	0.3007		853.6130	853.6130	0.0249	0.0246	861.5778
Total	**0.3764**	**1.1269**	**2.9416**	**0.0123**	**1.2528**	**0.0105**	**1.2633**	**0.3354**	**9.8800e-003**	**0.3452**		**1,264.8008**	**1,264.8008**	**0.0268**	**0.0867**	**1,291.2968**

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	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	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**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 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	0.0196	0.9031	0.2558	3.8900e-003	0.1355	5.7200e-003	0.1413	0.0390	5.4700e-003	0.0445		411.1879	411.1879	1.8900e-003	0.0620	429.7190
Worker	0.3568	0.2238	2.6859	8.4500e-003	1.1172	4.7900e-003	1.1220	0.2963	4.4100e-003	0.3007		853.6130	853.6130	0.0249	0.0246	861.5778
Total	**0.3764**	**1.1269**	**2.9416**	**0.0123**	**1.2528**	**0.0105**	**1.2633**	**0.3354**	**9.8800e-003**	**0.3452**		**1,264.8008**	**1,264.8008**	**0.0268**	**0.0867**	**1,291.2968**

3.3 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	72.4861					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	**72.6570**	**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 Not Applied

3.3 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	0.0708	0.0444	0.5332	1.6800e-003	0.2218	9.5000e-004	0.2228	0.0588	8.7000e-004	0.0597		169.4673	169.4673	4.9400e-003	4.8900e-003	171.0485
Total	**0.0708**	**0.0444**	**0.5332**	**1.6800e-003**	**0.2218**	**9.5000e-004**	**0.2228**	**0.0588**	**8.7000e-004**	**0.0597**		**169.4673**	**169.4673**	**4.9400e-003**	**4.8900e-003**	**171.0485**

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	72.4861					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	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**72.6570**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**	**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 Not Applied

3.3 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	0.0708	0.0444	0.5332	1.6800e-003	0.2218	9.5000e-004	0.2228	0.0588	8.7000e-004	0.0597		169.4673	169.4673	4.9400e-003	4.8900e-003	171.0485
Total	**0.0708**	**0.0444**	**0.5332**	**1.6800e-003**	**0.2218**	**9.5000e-004**	**0.2228**	**0.0588**	**8.7000e-004**	**0.0597**		**169.4673**	**169.4673**	**4.9400e-003**	**4.8900e-003**	**171.0485**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.541920	0.052620	0.169871	0.146633	0.025153	0.006100	0.012627	0.016953	0.000467	0.000322	0.022878	0.001103	0.003353

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486
Unmitigated	5.9020	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864	0.0000	28.0764	28.0764	0.0269	0.0000	28.7486

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.9720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4677	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864		28.0764	28.0764	0.0269		28.7486
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**		**0.0864**	**0.0864**		**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.9720					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4623					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.4677	0.1794	15.5780	8.2000e-004		0.0864	0.0864		0.0864	0.0864		28.0764	28.0764	0.0269		28.7486
Total	**5.9020**	**0.1794**	**15.5780**	**8.2000e-004**		**0.0864**	**0.0864**		**0.0864**	**0.0864**	**0.0000**	**28.0764**	**28.0764**	**0.0269**	**0.0000**	**28.7486**

7.0 Water Detail

7.1 Mitigation Measures Water

Prose Manteca Phase 2 Construction Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca Unmitigated Off-Site Improvements Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca Unmitigated Off-Site Improvements Construction Run

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	2.88	1000sqft	0.07	2,885.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 3

Trips and VMT -

Vehicle Trips - Note 2

Woodstoves - Note 2

Energy Use - Note 2

Water And Wastewater - note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 5

Prose Manteca Unmitigated Off-Site Improvements Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblLandUse	LandUseSquareFeet	2,880.00	2,885.00

2.0 Emissions Summary

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	2.8900e-003	0.0271	0.0263	5.0000e-005	6.0200e-003	1.2000e-003	7.2200e-003	2.7100e-003	1.1100e-003	3.8200e-003	0.0000	4.3628	4.3628	1.2300e-003	1.0000e-005	4.3966
Maximum	**2.8900e-003**	**0.0271**	**0.0263**	**5.0000e-005**	**6.0200e-003**	**1.2000e-003**	**7.2200e-003**	**2.7100e-003**	**1.1100e-003**	**3.8200e-003**	**0.0000**	**4.3628**	**4.3628**	**1.2300e-003**	**1.0000e-005**	**4.3966**

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	2.8900e-003	0.0271	0.0263	5.0000e-005	2.9500e-003	1.2000e-003	4.1500e-003	1.2900e-003	1.1100e-003	2.4000e-003	0.0000	4.3628	4.3628	1.2300e-003	1.0000e-005	4.3966
Maximum	**2.8900e-003**	**0.0271**	**0.0263**	**5.0000e-005**	**2.9500e-003**	**1.2000e-003**	**4.1500e-003**	**1.2900e-003**	**1.1100e-003**	**2.4000e-003**	**0.0000**	**4.3628**	**4.3628**	**1.2300e-003**	**1.0000e-005**	**4.3966**

Prose Manteca Unmitigated Off-Site Improvements Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**51.00**	**0.00**	**42.52**	**52.40**	**0.00**	**37.17**	**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	**2-1-2023**	**4-30-2023**	0.0259	0.0259
		Highest	0.0259	0.0259

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	2.5000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.5000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**2.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	2/1/2023	5	1	
2	Grading	Grading	2/2/2023	2/3/2023	5	2	
3	Paving	Paving	2/4/2023	2/10/2023	5	5	

Prose Manteca Unmitigated Off-Site Improvements Construction Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0.07

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	**2.7000e-004**	**3.0900e-003**	**1.9600e-003**	**0.0000**	**2.7000e-004**	**1.1000e-004**	**3.8000e-004**	**3.0000e-005**	**1.0000e-004**	**1.3000e-004**	**0.0000**	**0.4275**	**0.4275**	**1.4000e-004**	**0.0000**	**0.4309**

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	1.0000e-005	0.0000	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0157	0.0157	0.0000	0.0000	0.0158
Total	**1.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0157**	**0.0157**	**0.0000**	**0.0000**	**0.0158**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	3.0900e-003	1.9600e-003	0.0000		1.1000e-004	1.1000e-004		1.0000e-004	1.0000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4309
Total	**2.7000e-004**	**3.0900e-003**	**1.9600e-003**	**0.0000**	**1.2000e-004**	**1.1000e-004**	**2.3000e-004**	**1.0000e-005**	**1.0000e-004**	**1.1000e-004**	**0.0000**	**0.4275**	**0.4275**	**1.4000e-004**	**0.0000**	**0.4309**

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	1.0000e-005	0.0000	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0157	0.0157	0.0000	0.0000	0.0158

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**1.0000e-005**	**0.0000**	**6.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0157**	**0.0157**	**0.0000**	**0.0000**	**0.0158**

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					5.3100e-003	0.0000	5.3100e-003	2.5700e-003	0.0000	2.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
Total	**9.3000e-004**	**0.0102**	**5.5500e-003**	**1.0000e-005**	**5.3100e-003**	**4.2000e-004**	**5.7300e-003**	**2.5700e-003**	**3.9000e-004**	**2.9600e-003**	**0.0000**	**1.2381**	**1.2381**	**4.0000e-004**	**0.0000**	**1.2481**

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	2.0000e-005	2.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0505
Total	**2.0000e-005**	**2.0000e-005**	**1.8000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0501**	**0.0501**	**0.0000**	**0.0000**	**0.0505**

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					2.3900e-003	0.0000	2.3900e-003	1.1600e-003	0.0000	1.1600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.3000e-004	0.0102	5.5500e-003	1.0000e-005		4.2000e-004	4.2000e-004		3.9000e-004	3.9000e-004	0.0000	1.2381	1.2381	4.0000e-004	0.0000	1.2481
Total	**9.3000e-004**	**0.0102**	**5.5500e-003**	**1.0000e-005**	**2.3900e-003**	**4.2000e-004**	**2.8100e-003**	**1.1600e-003**	**3.9000e-004**	**1.5500e-003**	**0.0000**	**1.2381**	**1.2381**	**4.0000e-004**	**0.0000**	**1.2481**

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	2.0000e-005	2.0000e-005	1.8000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0501	0.0501	0.0000	0.0000	0.0505
Total	**2.0000e-005**	**2.0000e-005**	**1.8000e-004**	**0.0000**	**6.0000e-005**	**0.0000**	**6.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0501**	**0.0501**	**0.0000**	**0.0000**	**0.0505**

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	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.5300e-003**	**0.0138**	**0.0176**	**3.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**2.3498**	**2.3498**	**6.8000e-004**	**0.0000**	**2.3669**

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.3000e-004	9.0000e-005	1.0200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2817	0.2817	1.0000e-005	1.0000e-005	0.2843
Total	**1.3000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2817**	**0.2817**	**1.0000e-005**	**1.0000e-005**	**0.2843**

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	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.5300e-003**	**0.0138**	**0.0176**	**3.0000e-005**		**6.6000e-004**	**6.6000e-004**		**6.2000e-004**	**6.2000e-004**	**0.0000**	**2.3498**	**2.3498**	**6.8000e-004**	**0.0000**	**2.3669**

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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	1.3000e-004	9.0000e-005	1.0200e-003	0.0000	3.6000e-004	0.0000	3.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2817	0.2817	1.0000e-005	1.0000e-005	0.2843
Total	**1.3000e-004**	**9.0000e-005**	**1.0200e-003**	**0.0000**	**3.6000e-004**	**0.0000**	**3.6000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2817**	**0.2817**	**1.0000e-005**	**1.0000e-005**	**0.2843**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate	Unmitigated	Mitigated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Non-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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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					
Other Non-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
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.5000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Unmitigated	2.5000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005

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	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	**2.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	0.0000	5.0000e-005
Total	**2.5000e-004**	**0.0000**	**3.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**5.0000e-005**	**5.0000e-005**	**0.0000**	**0.0000**	**5.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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 Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Woodstoves - Note 7

Energy Use -

Water And Wastewater -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	362.3540	362.3540	0.0285	6.8400e-003	365.1043
Mobile	1.3039	2.0859	12.5074	0.0295	2.9901	0.0241	3.0142	0.7995	0.0226	0.8221	0.0000	2,729.0545	2,729.0545	0.1477	0.1429	2,775.3250
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	21.7809	30.5000	0.8991	0.0216	59.4050
Total	**3.7336**	**2.4612**	**15.7714**	**0.0319**	**2.9901**	**0.0688**	**3.0590**	**0.7995**	**0.0673**	**0.8669**	**50.3607**	**3,300.2351**	**3,350.5958**	**3.5447**	**0.1746**	**3,491.2491**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	306.2013	306.2013	0.0194	5.7400e-003	308.3964
Mobile	1.3039	2.0859	12.5074	0.0295	2.9901	0.0241	3.0142	0.7995	0.0226	0.8221	0.0000	2,729.0545	2,729.0545	0.1477	0.1429	2,775.3250
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	21.7809	30.5000	0.8991	0.0216	59.4050
Total	**3.7336**	**2.4612**	**15.7714**	**0.0319**	**2.9901**	**0.0688**	**3.0590**	**0.7995**	**0.0673**	**0.8669**	**50.3607**	**3,244.0825**	**3,294.4431**	**3.5356**	**0.1735**	**3,434.5411**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.70**	**1.68**	**0.26**	**0.63**	**1.62**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	1.3039	2.0859	12.5074	0.0295	2.9901	0.0241	3.0142	0.7995	0.0226	0.8221	0.0000	2,729.0545	2,729.0545	0.1477	0.1429	2,775.3250
Unmitigated	1.3039	2.0859	12.5074	0.0295	2.9901	0.0241	3.0142	0.7995	0.0226	0.8221	0.0000	2,729.0545	2,729.0545	0.1477	0.1429	2,775.3250

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Other Asphalt Surfaces	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	95.1572	95.1572	0.0154	1.8700e-003	96.0982
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	151.3099	151.3099	0.0245	2.9700e-003	152.8061
NaturalGas Mitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
NaturalGas Unmitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	3.95482e+006	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	3.95482e+006	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.63536e+006	151.3099	0.0245	2.9700e-003	152.8061
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**151.3099**	**0.0245**	**2.9700e-003**	**152.8061**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.48364e+006	137.2717	0.0222	2.6900e-003	138.6291
City Park	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Other Asphalt Surfaces	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Recreational Swimming Pool	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Total		**95.1572**	**0.0154**	**1.8500e-003**	**96.0982**

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Unmitigated	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495

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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.0940	0.0359	3.1196	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.9000e-003	0.0000	5.2212
Total	**2.4084**	**0.1931**	**3.1865**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3900e-003**	**3.3400e-003**	**188.2495**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.0940	0.0359	3.1196	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.9000e-003	0.0000	5.2212
Total	**2.4084**	**0.1931**	**3.1865**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3900e-003**	**3.3400e-003**	**188.2495**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5000	0.8991	0.0216	59.4050
Unmitigated	30.5000	0.8991	0.0216	59.4050

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	27.9682	0.8948	0.0214	56.7252
City Park	0 / 7.44676	2.4115	3.9000e-004	5.0000e-005	2.4354
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1202	3.8700e-003	9.0000e-005	0.2445
Total		**30.5000**	**0.8991**	**0.0216**	**59.4050**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	27.9682	0.8948	0.0214	56.7252
City Park	0 / 7.44676	2.4115	3.9000e-004	5.0000e-005	2.4354
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1202	3.8700e-003	9.0000e-005	0.2445
Total		**30.5000**	**0.8991**	**0.0216**	**59.4050**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.6416	2.4610	0.0000	103.1652
Unmitigated	41.6416	2.4610	0.0000	103.1652

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2024 Operation Run

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Woodstoves - Note 7

Energy Use -

Water And Wastewater -

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	8.3506	10.6761	71.7808	0.1720	16.9381	0.1326	17.0707	4.5179	0.1243	4.6422		17,517.4304	17,517.4304	0.8466	0.8342	17,787.2008
Total	**22.5409**	**15.9059**	**108.4984**	**0.2047**	**16.9381**	**0.7152**	**17.6533**	**4.5179**	**0.7069**	**5.2248**	**0.0000**	**23,746.3626**	**23,746.3626**	**1.0248**	**0.9473**	**24,054.2777**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	8.3506	10.6761	71.7808	0.1720	16.9381	0.1326	17.0707	4.5179	0.1243	4.6422		17,517.4304	17,517.4304	0.8466	0.8342	17,787.2008
Total	**22.5409**	**15.9059**	**108.4984**	**0.2047**	**16.9381**	**0.7152**	**17.6533**	**4.5179**	**0.7069**	**5.2248**	**0.0000**	**23,746.3626**	**23,746.3626**	**1.0248**	**0.9473**	**24,054.2777**

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	8.3506	10.6761	71.7808	0.1720	16.9381	0.1326	17.0707	4.5179	0.1243	4.6422		17,517.4304	17,517.4304	0.8466	0.8342	17,787.2008
Unmitigated	8.3506	10.6761	71.7808	0.1720	16.9381	0.1326	17.0707	4.5179	0.1243	4.6422		17,517.4304	17,517.4304	0.8466	0.8342	17,787.2008

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Other Asphalt Surfaces	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
NaturalGas Unmitigated	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	10835.1	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	10.8351	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

6.0 Area Detail

6.1 Mitigation Measures Area

Prose Manteca 2024 Operation Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Unmitigated	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2024 Operation Run

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Woodstoves - Note 7

Energy Use -

Water And Wastewater -

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	6.9771	12.0781	72.1921	0.1595	16.9381	0.1326	17.0708	4.5179	0.1244	4.6423		16,252.7633	16,252.7633	0.9540	0.8969	16,543.8935
Total	**21.1674**	**17.3079**	**108.9098**	**0.1922**	**16.9381**	**0.7153**	**17.6534**	**4.5179**	**0.7070**	**5.2249**	**0.0000**	**22,481.6956**	**22,481.6956**	**1.1322**	**1.0100**	**22,810.9704**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	6.9771	12.0781	72.1921	0.1595	16.9381	0.1326	17.0708	4.5179	0.1244	4.6423		16,252.7633	16,252.7633	0.9540	0.8969	16,543.8935
Total	**21.1674**	**17.3079**	**108.9098**	**0.1922**	**16.9381**	**0.7153**	**17.6534**	**4.5179**	**0.7070**	**5.2249**	**0.0000**	**22,481.6956**	**22,481.6956**	**1.1322**	**1.0100**	**22,810.9704**

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Reduce Vehicle Speed on Unpaved Roads

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	6.9771	12.0781	72.1921	0.1595	16.9381	0.1326	17.0708	4.5179	0.1244	4.6423		16,252.7633	16,252.7633	0.9540	0.8969	16,543.8935
Unmitigated	6.9771	12.0781	72.1921	0.1595	16.9381	0.1326	17.0708	4.5179	0.1244	4.6423		16,252.7633	16,252.7633	0.9540	0.8969	16,543.8935

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Other Asphalt Surfaces	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
NaturalGas Unmitigated	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	10835.1	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

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					
Apartments Mid Rise	10.8351	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

6.0 Area Detail

6.1 Mitigation Measures Area

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Unmitigated	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

7.0 Water Detail

7.1 Mitigation Measures Water

Prose Manteca 2024 Operation Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2030 Operation Run

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	184	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Note 6

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Vehicle Emission Factors -

Woodstoves - Note 7

Energy Use -

Prose Manteca 2030 Operation Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	249,040.00	249,044.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblProjectCharacteristics	CO2IntensityFactor	203.98	184
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	2.4077	0.1930	3.1795	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3500e-003	3.3400e-003	188.2487
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	347.5331	347.5331	0.0285	6.8400e-003	350.2834
Mobile	0.9813	1.5165	9.7827	0.0246	2.9869	0.0180	3.0049	0.7982	0.0169	0.8151	0.0000	2,273.5994	2,273.5994	0.1139	0.1142	2,310.4900
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	19.6474	28.3665	0.8991	0.0216	57.2716
Total	**3.4104**	**1.8918**	**13.0397**	**0.0269**	**2.9869**	**0.0627**	**3.0497**	**0.7982**	**0.0616**	**0.8598**	**50.3607**	**2,827.8257**	**2,878.1864**	**3.5108**	**0.1460**	**3,009.4588**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4077	0.1930	3.1795	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3500e-003	3.3400e-003	188.2487
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	296.8806	296.8806	0.0194	5.7400e-003	299.0756
Mobile	0.9813	1.5165	9.7827	0.0246	2.9869	0.0180	3.0049	0.7982	0.0169	0.8151	0.0000	2,273.5994	2,273.5994	0.1139	0.1142	2,310.4900
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	19.6474	28.3665	0.8991	0.0216	57.2716
Total	**3.4104**	**1.8918**	**13.0397**	**0.0269**	**2.9869**	**0.0627**	**3.0497**	**0.7982**	**0.0616**	**0.8598**	**50.3607**	**2,777.1732**	**2,827.5339**	**3.5017**	**0.1449**	**2,958.2511**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**1.79**	**1.76**	**0.26**	**0.75**	**1.70**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	0.9813	1.5165	9.7827	0.0246	2.9869	0.0180	3.0049	0.7982	0.0169	0.8151	0.0000	2,273.5994	2,273.5994	0.1139	0.1142	2,310.4900
Unmitigated	0.9813	1.5165	9.7827	0.0246	2.9869	0.0180	3.0049	0.7982	0.0169	0.8151	0.0000	2,273.5994	2,273.5994	0.1139	0.1142	2,310.4900

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
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

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
City Park	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
Other Asphalt Surfaces	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
Recreational Swimming Pool	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	85.8365	85.8365	0.0154	1.8700e-003	86.7774
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	136.4890	136.4890	0.0245	2.9700e-003	137.9852
NaturalGas Mitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
NaturalGas Unmitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982

Prose Manteca 2030 Operation Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	3.95482e+006	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	3.95482e+006	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.63536e+006	136.4890	0.0245	2.9700e-003	137.9852
City Park	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**136.4890**	**0.0245**	**2.9700e-003**	**137.9852**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.48364e+006	123.8259	0.0222	2.6900e-003	125.1832
City Park	-151725	-12.6631	-0.0023	-0.0003	-12.8019
Other Asphalt Surfaces	-151725	-12.6631	-0.0023	-0.0003	-12.8019
Recreational Swimming Pool	-151725	-12.6631	-0.0023	-0.0003	-12.8019
Total		**85.8365**	**0.0154**	**1.8500e-003**	**86.7774**

6.0 Area Detail

6.1 Mitigation Measures Area

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.4077	0.1930	3.1795	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3500e-003	3.3400e-003	188.2487
Unmitigated	2.4077	0.1930	3.1795	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3500e-003	3.3400e-003	188.2487

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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.0933	0.0359	3.1127	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.8700e-003	0.0000	5.2203
Total	**2.4077**	**0.1930**	**3.1795**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3600e-003**	**3.3400e-003**	**188.2487**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.0933	0.0359	3.1127	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.8700e-003	0.0000	5.2203
Total	**2.4077**	**0.1930**	**3.1795**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3600e-003**	**3.3400e-003**	**188.2487**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.3665	0.8991	0.0216	57.2716
Unmitigated	28.3665	0.8991	0.0216	57.2716

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	26.0791	0.8948	0.0214	54.8360
City Park	0 / 7.44676	2.1753	3.9000e-004	5.0000e-005	2.1991
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1121	3.8700e-003	9.0000e-005	0.2364
Total		**28.3665**	**0.8991**	**0.0216**	**57.2716**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	26.0791	0.8948	0.0214	54.8360
City Park	0 / 7.44676	2.1753	3.9000e-004	5.0000e-005	2.1991
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1121	3.8700e-003	9.0000e-005	0.2364
Total		**28.3665**	**0.8991**	**0.0216**	**57.2716**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.6416	2.4610	0.0000	103.1652
Unmitigated	41.6416	2.4610	0.0000	103.1652

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2024 Operation LST Run

San Joaquin County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	249.04	1000sqft	5.72	249,040.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4 and 11

Woodstoves - Note 7

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area Coating -

Energy Use -

Water And Wastewater - Note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.92
tblVehicleTrips	HS_TL	7.30	0.92
tblVehicleTrips	HW_TL	10.80	0.92
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	5.5874	3.2528	19.7924	0.0239	1.9574	0.0250	1.9824	0.5221	0.0233	0.5454		2,440.2651	2,440.2651	0.3668	0.2470	2,523.0319
Total	**19.7777**	**8.4825**	**56.5100**	**0.0566**	**1.9574**	**0.6076**	**2.5650**	**0.5221**	**0.6059**	**1.1280**	**0.0000**	**8,669.1973**	**8,669.1973**	**0.5450**	**0.3600**	**8,790.1088**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	5.5874	3.2528	19.7924	0.0239	1.9574	0.0250	1.9824	0.5221	0.0233	0.5454		2,440.2651	2,440.2651	0.3668	0.2470	2,523.0319
Total	**19.7777**	**8.4825**	**56.5100**	**0.0566**	**1.9574**	**0.6076**	**2.5650**	**0.5221**	**0.6059**	**1.1280**	**0.0000**	**8,669.1973**	**8,669.1973**	**0.5450**	**0.3600**	**8,790.1088**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

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

Trips and VMT

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	5.5874	3.2528	19.7924	0.0239	1.9574	0.0250	1.9824	0.5221	0.0233	0.5454		2,440.2651	2,440.2651	0.3668	0.2470	2,523.0319
Unmitigated	5.5874	3.2528	19.7924	0.0239	1.9574	0.0250	1.9824	0.5221	0.0233	0.5454		2,440.2651	2,440.2651	0.3668	0.2470	2,523.0319

4.2 Trip Summary Information

Appendix A	Average Daily Trip Rate	Unmitigated	Mitigated

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	926,881	926,881
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	926,881	926,881

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
Apartments Mid Rise	0.92	0.92	0.92	45.60	19.00	35.40	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
NaturalGas Mitigated	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
NaturalGas Unmitigated	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943

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					
Apartments Mid Rise	10835.1	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments Mid Rise	10.8351	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

7.0 Water Detail

7.1 Mitigation Measures Water

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Prose Manteca 2024 Operation LST Run - San Joaquin County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

Prose Manteca 2024 Operation LST Run - San Joaquin County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2024 Operation LST Run

San Joaquin County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	249.04	1000sqft	5.72	249,040.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4 and 11

Woodstoves - Note 7

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area Coating -

Energy Use -

Water And Wastewater - Note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.92
tblVehicleTrips	HS_TL	7.30	0.92
tblVehicleTrips	HW_TL	10.80	0.92
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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)
		Highest		

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	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	370.4187	370.4187	0.0298	6.9900e-003	373.2488
Mobile	0.7970	0.6317	3.9816	4.1600e-003	0.3456	4.5500e-003	0.3501	0.0924	4.2400e-003	0.0966	0.0000	384.9676	384.9676	0.0697	0.0428	399.4621
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	21.7809	30.5000	0.8991	0.0216	59.4050
Total	**3.2267**	**1.0070**	**7.2456**	**6.4900e-003**	**0.3456**	**0.0493**	**0.3948**	**0.0924**	**0.0490**	**0.1414**	**50.3607**	**964.2130**	**1,014.5736**	**3.4680**	**0.0747**	**1,123.5307**

Mitigated Operational

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Area	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Energy	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	314.2660	314.2660	0.0207	5.8900e-003	316.5409
Mobile	0.7970	0.6317	3.9816	4.1600e-003	0.3456	4.5500e-003	0.3501	0.0924	4.2400e-003	0.0966	0.0000	384.9676	384.9676	0.0697	0.0428	399.4621
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	21.7809	30.5000	0.8991	0.0216	59.4050
Total	**3.2267**	**1.0070**	**7.2456**	**6.4900e-003**	**0.3456**	**0.0493**	**0.3948**	**0.0924**	**0.0490**	**0.1414**	**50.3607**	**908.0603**	**958.4209**	**3.4589**	**0.0736**	**1,066.8228**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.82**	**5.53**	**0.26**	**1.47**	**5.05**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated	0.7970	0.6317	3.9816	4.1600e-003	0.3456	4.5500e-003	0.3501	0.0924	4.2400e-003	0.0966	0.0000	384.9676	384.9676	0.0697	0.0428	399.4621
Unmitigated	0.7970	0.6317	3.9816	4.1600e-003	0.3456	4.5500e-003	0.3501	0.0924	4.2400e-003	0.0966	0.0000	384.9676	384.9676	0.0697	0.0428	399.4621

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	926,881	926,881
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	926,881	926,881

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
Apartments Mid Rise	0.92	0.92	0.92	45.60	19.00	35.40	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	103.2220	103.2220	0.0167	2.0200e-003	104.2426
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.3746	159.3746	0.0258	3.1300e-003	160.9506
NaturalGas Mitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
NaturalGas Unmitigated	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982

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					
Apartments Mid Rise	3.95482e+0	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

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					
Apartments Mid Rise	3.95482e+006	0.0213	0.1822	0.0776	1.1600e-003		0.0147	0.0147		0.0147	0.0147	0.0000	211.0441	211.0441	4.0500e-003	3.8700e-003	212.2982
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0213**	**0.1822**	**0.0776**	**1.1600e-003**		**0.0147**	**0.0147**		**0.0147**	**0.0147**	**0.0000**	**211.0441**	**211.0441**	**4.0500e-003**	**3.8700e-003**	**212.2982**

5.3 Energy by Land Use - Electricity

Unmitigated

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	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.63536e+006	151.3099	0.0245	2.9700e-003	152.8061
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	87164	8.0647	1.3000e-003	1.6000e-004	8.1445
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**159.3746**	**0.0258**	**3.1300e-003**	**160.9506**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.48364e+006	137.2717	0.0222	2.6900e-003	138.6291
City Park	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Parking Lot	-64561	-5.9734	-0.0010	-0.0001	-6.0325
Recreational Swimming Pool	-151725	-14.0382	-0.0023	-0.0003	-14.1770
Total		**103.2220**	**0.0167**	**2.0100e-003**	**104.2427**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495
Unmitigated	2.4084	0.1930	3.1865	1.1700e-003		0.0300	0.0300		0.0300	0.0300	0.0000	187.0458	187.0458	8.3900e-003	3.3400e-003	188.2495

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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Landscaping	0.0940	0.0359	3.1196	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.9000e-003	0.0000	5.2212
Total	**2.4084**	**0.1931**	**3.1865**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3900e-003**	**3.3400e-003**	**188.2495**

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	0.4443					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.0940	0.0359	3.1196	1.6000e-004		0.0173	0.0173		0.0173	0.0173	0.0000	5.0987	5.0987	4.9000e-003	0.0000	5.2212
Total	**2.4084**	**0.1931**	**3.1865**	**1.1600e-003**		**0.0300**	**0.0300**		**0.0300**	**0.0300**	**0.0000**	**187.0458**	**187.0458**	**8.3900e-003**	**3.3400e-003**	**188.2495**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	30.5000	0.8991	0.0216	59.4050
Unmitigated	30.5000	0.8991	0.0216	59.4050

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	27.9682	0.8948	0.0214	56.7252
City Park	0 / 7.44676	2.4115	3.9000e-004	5.0000e-005	2.4354
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1202	3.8700e-003	9.0000e-005	0.2445
Total		**30.5000**	**0.8991**	**0.0216**	**59.4050**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	27.9682	0.8948	0.0214	56.7252
City Park	0 / 7.44676	2.4115	3.9000e-004	5.0000e-005	2.4354
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.1202	3.8700e-003	9.0000e-005	0.2445
Total		**30.5000**	**0.8991**	**0.0216**	**59.4050**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Appendix A				

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated	41.6416	2.4610	0.0000	103.1652
Unmitigated	41.6416	2.4610	0.0000	103.1652

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Prose Manteca 2024 Operation LST Run

San Joaquin County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	249.04	1000sqft	5.72	249,040.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2024
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 - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4 and 11

Woodstoves - Note 7

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area Coating -

Energy Use -

Water And Wastewater - Note 2

Solid Waste - Note 2

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	HO_TL	7.50	0.92
tblVehicleTrips	HS_TL	7.30	0.92
tblVehicleTrips	HW_TL	10.80	0.92
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	1.2660	0.0000	0.0000	1.1647	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**1.2660**	**0.0000**	**0.0000**	**1.1647**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826
Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	4.1073	3.6999	24.9627	0.0226	1.9574	0.0251	1.9825	0.5221	0.0234	0.5455		2,307.0820	2,307.0820	0.4752	0.2731	2,400.3425
Total	**18.2976**	**8.9296**	**61.6804**	**0.0553**	**1.9574**	**0.6077**	**2.5651**	**0.5221**	**0.6060**	**1.1281**	**0.0000**	**8,536.0142**	**8,536.0142**	**0.6534**	**0.3861**	**8,667.4194**

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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
Mobile	4.1073	3.6999	24.9627	0.0226	1.9574	0.0251	1.9825	0.5221	0.0234	0.5455		2,307.0820	2,307.0820	0.4752	0.2731	2,400.3425
Total	**18.2976**	**8.9296**	**61.6804**	**0.0553**	**1.9574**	**0.6077**	**2.5651**	**0.5221**	**0.6060**	**1.1281**	**0.0000**	**8,536.0142**	**8,536.0142**	**0.6534**	**0.3861**	**8,667.4194**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating

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

Trips and VMT

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	4.1073	3.6999	24.9627	0.0226	1.9574	0.0251	1.9825	0.5221	0.0234	0.5455		2,307.0820	2,307.0820	0.4752	0.2731	2,400.3425
Unmitigated	4.1073	3.6999	24.9627	0.0226	1.9574	0.0251	1.9825	0.5221	0.0234	0.5455		2,307.0820	2,307.0820	0.4752	0.2731	2,400.3425

4.2 Trip Summary Information

Appendix A	Average Daily Trip Rate	Unmitigated	Mitigated

Prose Manteca 2024 Operation LST Run - San Joaquin County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	926,881	926,881
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	926,881	926,881

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
Apartments Mid Rise	0.92	0.92	0.92	45.60	19.00	35.40	100	0	0
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	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	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
NaturalGas Unmitigated	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943

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					
Apartments Mid Rise	10835.1	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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					
Apartments Mid Rise	10.8351	0.1169	0.9985	0.4249	6.3700e-003		0.0807	0.0807		0.0807	0.0807		1,274.7193	1,274.7193	0.0244	0.0234	1,282.2943
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.1169**	**0.9985**	**0.4249**	**6.3700e-003**		**0.0807**	**0.0807**		**0.0807**	**0.0807**		**1,274.7193**	**1,274.7193**	**0.0244**	**0.0234**	**1,282.2943**

6.0 Area Detail

6.1 Mitigation Measures Area

	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	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Unmitigated	14.0735	4.2312	36.2928	0.0263		0.5019	0.5019		0.5019	0.5019	0.0000	4,954.2130	4,954.2130	0.1538	0.0897	4,984.7826

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	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

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					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	2.4344					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	10.1468					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.4484	3.8319	1.6306	0.0245		0.3098	0.3098		0.3098	0.3098	0.0000	4,891.7647	4,891.7647	0.0938	0.0897	4,920.8340
Landscaping	1.0439	0.3993	34.6622	1.8300e-003		0.1921	0.1921		0.1921	0.1921		62.4483	62.4483	0.0600		63.9486
Total	**14.0735**	**4.2312**	**36.2928**	**0.0263**		**0.5019**	**0.5019**		**0.5019**	**0.5019**	**0.0000**	**4,954.2130**	**4,954.2130**	**0.1538**	**0.0897**	**4,984.7826**

7.0 Water Detail

7.1 Mitigation Measures Water

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2005
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Note 12

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Woodstoves - Note 7

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Fleet Mix - Note 12

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	LDA	0.48	0.54
tblFleetMix	LDA	0.48	0.54
tblFleetMix	LDA	0.48	0.54
tblFleetMix	LDA	0.48	0.54
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LHD1	0.04	0.03

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	LHD1	0.04	0.03
tblFleetMix	LHD1	0.04	0.03
tblFleetMix	LHD1	0.04	0.03
tblFleetMix	LHD2	5.5660e-003	6.2410e-003
tblFleetMix	LHD2	5.5660e-003	6.2410e-003
tblFleetMix	LHD2	5.5660e-003	6.2410e-003
tblFleetMix	LHD2	5.5660e-003	6.2410e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.17	0.15
tblFleetMix	MDV	0.17	0.15
tblFleetMix	MDV	0.17	0.15
tblFleetMix	MDV	0.17	0.15
tblFleetMix	MH	9.4700e-003	3.5220e-003
tblFleetMix	MH	9.4700e-003	3.5220e-003
tblFleetMix	MH	9.4700e-003	3.5220e-003
tblFleetMix	MH	9.4700e-003	3.5220e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	4.9300e-004	4.7100e-004
tblFleetMix	OBUS	4.9300e-004	4.7100e-004
tblFleetMix	OBUS	4.9300e-004	4.7100e-004
tblFleetMix	OBUS	4.9300e-004	4.7100e-004
tblFleetMix	SBUS	7.4500e-004	1.1190e-003
tblFleetMix	SBUS	7.4500e-004	1.1190e-003

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	SBUS	7.4500e-004	1.1190e-003
tblFleetMix	SBUS	7.4500e-004	1.1190e-003
tblFleetMix	UBUS	3.7400e-004	3.2500e-004
tblFleetMix	UBUS	3.7400e-004	3.2500e-004
tblFleetMix	UBUS	3.7400e-004	3.2500e-004
tblFleetMix	UBUS	3.7400e-004	3.2500e-004
tblLandUse	LandUseSquareFeet	249,040.00	249,044.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblProjectCharacteristics	CO2IntensityFactor	203.98	641.35
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	753.0863	753.0863	0.0311	7.5700e-003	756.1193
Mobile	4.7454	12.1595	55.1121	0.0821	2.9900	0.2462	3.2362	0.7995	0.2338	1.0333	0.0000	3,781.2987	3,781.2987	0.5309	0.4238	3,920.8604
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	68.4831	77.2021	0.8991	0.0216	106.1072
Total	**7.5335**	**12.5710**	**58.8860**	**0.0846**	**2.9900**	**0.2908**	**3.2808**	**0.7995**	**0.2784**	**1.0779**	**50.3607**	**4,789.9139**	**4,840.2745**	**3.9336**	**0.4563**	**5,074.5835**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	753.0863	753.0863	0.0311	7.5700e-003	756.1193
Mobile	4.7454	12.1595	55.1121	0.0821	2.9900	0.2462	3.2362	0.7995	0.2338	1.0333	0.0000	3,781.2987	3,781.2987	0.5309	0.4238	3,920.8604
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	68.4831	77.2021	0.8991	0.0216	106.1072
Total	**7.5335**	**12.5710**	**58.8860**	**0.0846**	**2.9900**	**0.2908**	**3.2808**	**0.7995**	**0.2784**	**1.0779**	**50.3607**	**4,789.9139**	**4,840.2745**	**3.9336**	**0.4563**	**5,074.5835**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	4.7454	12.1595	55.1121	0.0821	2.9900	0.2462	3.2362	0.7995	0.2338	1.0333	0.0000	3,781.2987	3,781.2987	0.5309	0.4238	3,920.8604
Unmitigated	4.7454	12.1595	55.1121	0.0821	2.9900	0.2462	3.2362	0.7995	0.2338	1.0333	0.0000	3,781.2987	3,781.2987	0.5309	0.4238	3,920.8604

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
City Park	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Parking Lot	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522
Recreational Swimming Pool	0.536987	0.052416	0.169237	0.150872	0.026159	0.006241	0.012518	0.016886	0.000471	0.000325	0.023246	0.001119	0.003522

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	515.5268	515.5268	0.0265	3.2200e-003	517.1480
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	515.5268	515.5268	0.0265	3.2200e-003	517.1480
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
NaturalGas Unmitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	4.4517e+006	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0240**	**0.2051**	**0.0873**	**1.3100e-003**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**237.5595**	**237.5595**	**4.5500e-003**	**4.3600e-003**	**238.9712**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	4.4517e+006	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0240**	**0.2051**	**0.0873**	**1.3100e-003**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**237.5595**	**237.5595**	**4.5500e-003**	**4.3600e-003**	**238.9712**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.55295e+006	451.7710	0.0233	2.8200e-003	453.1918
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219159	63.7558	3.2800e-003	4.0000e-004	63.9563
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**515.5267**	**0.0265**	**3.2200e-003**	**517.1480**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.55295e+006	451.7710	0.0233	2.8200e-003	453.1918
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219159	63.7558	3.2800e-003	4.0000e-004	63.9563
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**515.5267**	**0.0265**	**3.2200e-003**	**517.1480**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Unmitigated	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315

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	0.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.1569	0.0492	3.6198	1.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	5.0987	5.0987	8.1800e-003	0.0000	5.3032
Total	**2.7640**	**0.2063**	**3.6866**	**1.1600e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**	**0.0000**	**187.0458**	**187.0458**	**0.0117**	**3.3400e-003**	**188.3315**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.1569	0.0492	3.6198	1.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	5.0987	5.0987	8.1800e-003	0.0000	5.3032
Total	**2.7640**	**0.2063**	**3.6866**	**1.1600e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**	**0.0000**	**187.0458**	**187.0458**	**0.0117**	**3.3400e-003**	**188.3315**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	77.2021	0.8991	0.0216	106.1072
Unmitigated	77.2021	0.8991	0.0216	106.1072

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	69.3224	0.8948	0.0214	98.0793
City Park	0 / 7.44676	7.5822	3.9000e-004	5.0000e-005	7.6061
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2975	3.8700e-003	9.0000e-005	0.4218
Total		**77.2021**	**0.8991**	**0.0216**	**106.1072**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	69.3224	0.8948	0.0214	98.0793
City Park	0 / 7.44676	7.5822	3.9000e-004	5.0000e-005	7.6061
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2975	3.8700e-003	9.0000e-005	0.4218
Total		**77.2021**	**0.8991**	**0.0216**	**106.1072**

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.6416	2.4610	0.0000	103.1652
Unmitigated	41.6416	2.4610	0.0000	103.1652

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

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

Boilers

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

User Defined Equipment

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Equipment Type	Number

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	249.04	1000sqft	5.72	249,044.00	0
City Park	6.25	Acre	6.25	272,250.00	0
Recreational Swimming Pool	2.00	1000sqft	0.05	2,000.00	0
Apartments Mid Rise	420.00	Dwelling Unit	3.39	463,373.00	1332

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2005
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	641.35	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Note 12

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT - Note 2

Grading - Note 2

Vehicle Trips - Note 4

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

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Woodstoves - Note 7

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation - Note 4

Energy Mitigation - Note 8

Fleet Mix - Note 12

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	0.00
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	HHD	0.01	0.02
tblFleetMix	LDA	0.48	0.56
tblFleetMix	LDA	0.48	0.56
tblFleetMix	LDA	0.48	0.56
tblFleetMix	LDA	0.48	0.56
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT1	0.08	0.05
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LDT2	0.16	0.17
tblFleetMix	LHD1	0.04	0.02

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tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD1	0.04	0.02
tblFleetMix	LHD2	5.5660e-003	5.4940e-003
tblFleetMix	LHD2	5.5660e-003	5.4940e-003
tblFleetMix	LHD2	5.5660e-003	5.4940e-003
tblFleetMix	LHD2	5.5660e-003	5.4940e-003
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MCY	0.02	0.02
tblFleetMix	MDV	0.17	0.13
tblFleetMix	MDV	0.17	0.13
tblFleetMix	MDV	0.17	0.13
tblFleetMix	MDV	0.17	0.13
tblFleetMix	MH	9.4700e-003	2.6850e-003
tblFleetMix	MH	9.4700e-003	2.6850e-003
tblFleetMix	MH	9.4700e-003	2.6850e-003
tblFleetMix	MH	9.4700e-003	2.6850e-003
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	MHD	0.01	0.01
tblFleetMix	OBUS	4.9300e-004	4.4100e-004
tblFleetMix	OBUS	4.9300e-004	4.4100e-004
tblFleetMix	OBUS	4.9300e-004	4.4100e-004
tblFleetMix	OBUS	4.9300e-004	4.4100e-004
tblFleetMix	SBUS	7.4500e-004	1.0080e-003
tblFleetMix	SBUS	7.4500e-004	1.0080e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	SBUS	7.4500e-004	1.0080e-003
tblFleetMix	SBUS	7.4500e-004	1.0080e-003
tblFleetMix	UBUS	3.7400e-004	3.1200e-004
tblFleetMix	UBUS	3.7400e-004	3.1200e-004
tblFleetMix	UBUS	3.7400e-004	3.1200e-004
tblFleetMix	UBUS	3.7400e-004	3.1200e-004
tblLandUse	LandUseSquareFeet	249,040.00	249,044.00
tblLandUse	LandUseSquareFeet	420,000.00	463,373.00
tblLandUse	LotAcreage	11.05	3.39
tblProjectCharacteristics	CO2IntensityFactor	203.98	641.35
tblTripsAndVMT	WorkerTripNumber	18.00	0.00
tblVehicleTrips	ST_TR	4.91	6.59
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	4.09	6.59
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	5.44	6.59
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	28.82	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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)

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

		Highest		

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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	753.0863	753.0863	0.0311	7.5700e-003	756.1193
Mobile	4.6861	11.8618	54.4125	0.0796	2.9868	0.2423	3.2291	0.7982	0.2300	1.0282	0.0000	3,722.2674	3,722.2674	0.5245	0.4193	3,860.3316
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	68.4831	77.2021	0.8991	0.0216	106.1072
Total	**7.4742**	**12.2733**	**58.1864**	**0.0821**	**2.9868**	**0.2869**	**3.2737**	**0.7982**	**0.2746**	**1.0727**	**50.3607**	**4,730.8826**	**4,781.2432**	**3.9273**	**0.4518**	**5,014.0548**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	753.0863	753.0863	0.0311	7.5700e-003	756.1193
Mobile	4.6861	11.8618	54.4125	0.0796	2.9868	0.2423	3.2291	0.7982	0.2300	1.0282	0.0000	3,722.2674	3,722.2674	0.5245	0.4193	3,860.3316
Waste						0.0000	0.0000		0.0000	0.0000	41.6416	0.0000	41.6416	2.4610	0.0000	103.1652
Water						0.0000	0.0000		0.0000	0.0000	8.7191	68.4831	77.2021	0.8991	0.0216	106.1072
Total	**7.4742**	**12.2733**	**58.1864**	**0.0821**	**2.9868**	**0.2869**	**3.2737**	**0.7982**	**0.2746**	**1.0727**	**50.3607**	**4,730.8826**	**4,781.2432**	**3.9273**	**0.4518**	**5,014.0548**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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	2/1/2023	1/31/2023	5	0	

Acres of Grading (Site Preparation Phase): 0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 5.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (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

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	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Site Preparation - 2023

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	4.6861	11.8618	54.4125	0.0796	2.9868	0.2423	3.2291	0.7982	0.2300	1.0282	0.0000	3,722.2674	3,722.2674	0.5245	0.4193	3,860.3316
Unmitigated	4.6861	11.8618	54.4125	0.0796	2.9868	0.2423	3.2291	0.7982	0.2300	1.0282	0.0000	3,722.2674	3,722.2674	0.5245	0.4193	3,860.3316

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,767.80	2,767.80	2767.80	8,020,577	8,020,577
City Park	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	2,767.80	2,767.80	2,767.80	8,020,577	8,020,577

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
Apartments Mid Rise	10.80	7.30	7.50	45.60	19.00	35.40	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	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
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
City Park	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
Parking Lot	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685
Recreational Swimming Pool	0.560100	0.053949	0.173371	0.131047	0.021297	0.005494	0.012620	0.016451	0.000441	0.000312	0.021225	0.001008	0.002685

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	515.5268	515.5268	0.0265	3.2200e-003	517.1480
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	515.5268	515.5268	0.0265	3.2200e-003	517.1480
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
NaturalGas Unmitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	4.4517e+006	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0240**	**0.2051**	**0.0873**	**1.3100e-003**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**237.5595**	**237.5595**	**4.5500e-003**	**4.3600e-003**	**238.9712**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Apartments Mid Rise	4.4517e+006	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166	0.0000	237.5595	237.5595	4.5500e-003	4.3600e-003	238.9712
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
Parking Lot	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
Recreational Swimming Pool	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
Total		**0.0240**	**0.2051**	**0.0873**	**1.3100e-003**		**0.0166**	**0.0166**		**0.0166**	**0.0166**	**0.0000**	**237.5595**	**237.5595**	**4.5500e-003**	**4.3600e-003**	**238.9712**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.55295e+006	451.7710	0.0233	2.8200e-003	453.1918
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219159	63.7558	3.2800e-003	4.0000e-004	63.9563
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**515.5267**	**0.0265**	**3.2200e-003**	**517.1480**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.55295e+006	451.7710	0.0233	2.8200e-003	453.1918
City Park	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	219159	63.7558	3.2800e-003	4.0000e-004	63.9563
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Total		**515.5267**	**0.0265**	**3.2200e-003**	**517.1480**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315
Unmitigated	2.7640	0.2063	3.6867	1.1700e-003		0.0280	0.0280		0.0280	0.0280	0.0000	187.0458	187.0458	0.0117	3.3400e-003	188.3315

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	0.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.1569	0.0492	3.6198	1.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	5.0987	5.0987	8.1800e-003	0.0000	5.3032
Total	**2.7640**	**0.2063**	**3.6866**	**1.1600e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**	**0.0000**	**187.0458**	**187.0458**	**0.0117**	**3.3400e-003**	**188.3315**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.7370					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8518					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0184	0.1571	0.0669	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.9471	181.9471	3.4900e-003	3.3400e-003	183.0283
Landscaping	0.1569	0.0492	3.6198	1.6000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	5.0987	5.0987	8.1800e-003	0.0000	5.3032
Total	**2.7640**	**0.2063**	**3.6866**	**1.1600e-003**		**0.0280**	**0.0280**		**0.0280**	**0.0280**	**0.0000**	**187.0458**	**187.0458**	**0.0117**	**3.3400e-003**	**188.3315**

7.0 Water Detail

7.1 Mitigation Measures Water

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	77.2021	0.8991	0.0216	106.1072
Unmitigated	77.2021	0.8991	0.0216	106.1072

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	69.3224	0.8948	0.0214	98.0793
City Park	0 / 7.44676	7.5822	3.9000e-004	5.0000e-005	7.6061
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2975	3.8700e-003	9.0000e-005	0.4218
Total		**77.2021**	**0.8991**	**0.0216**	**106.1072**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	27.3647 / 17.2517	69.3224	0.8948	0.0214	98.0793
City Park	0 / 7.44676	7.5822	3.9000e-004	5.0000e-005	7.6061
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.118286 / 0.0724981	0.2975	3.8700e-003	9.0000e-005	0.4218
Total		**77.2021**	**0.8991**	**0.0216**	**106.1072**

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 Not Applied

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	41.6416	2.4610	0.0000	103.1652
Unmitigated	41.6416	2.4610	0.0000	103.1652

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	193.2	39.2179	2.3177	0.0000	97.1606
City Park	0.54	0.1096	6.4800e-003	0.0000	0.2716
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	11.4	2.3141	0.1368	0.0000	5.7331
Total		**41.6416**	**2.4610**	**0.0000**	**103.1652**

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

Boilers

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

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.7	**Precipitation Freq (Days)**	51
Climate Zone	2			**Operational Year**	2023
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 -

Construction Phase - The construction here is a place holder. Only the operational electricty consumption is used here.

Demolition - Note 1

Grading - Note 3

Architectural Coating - Note 2

Vehicle Trips -

Area Coating - Note 2

Construction Off-road Equipment Mitigation -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	6/7/2023	6/30/2023

2.0 Emissions Summary

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	7.1100e-003	0.0143	0.0199	3.0000e-005	0.0000	7.8000e-004	7.8000e-004	0.0000	7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128
Maximum	**7.1100e-003**	**0.0143**	**0.0199**	**3.0000e-005**	**0.0000**	**7.8000e-004**	**7.8000e-004**	**0.0000**	**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.7000e-004**	**0.0000**	**2.8128**

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	7.1100e-003	0.0143	0.0199	3.0000e-005	0.0000	7.8000e-004	7.8000e-004	0.0000	7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128
Maximum	**7.1100e-003**	**0.0143**	**0.0199**	**3.0000e-005**	**0.0000**	**7.8000e-004**	**7.8000e-004**	**0.0000**	**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.7000e-004**	**0.0000**	**2.8128**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**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	**6-1-2023**	**8-31-2023**	0.0209	0.0209
		Highest	0.0209	0.0209

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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2698	1.2698	1.2000e-004	2.0000e-005	1.2799
Mobile	2.4500e-003	3.6700e-003	0.0220	5.0000e-005	4.7300e-003	4.0000e-005	4.7700e-003	1.2600e-003	4.0000e-005	1.3000e-003	0.0000	4.4936	4.4936	2.7000e-004	2.5000e-004	4.5739
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**5.8200e-003**	**4.2500e-003**	**0.0225**	**5.0000e-005**	**4.7300e-003**	**8.0000e-005**	**4.8100e-003**	**1.2600e-003**	**8.0000e-005**	**1.3400e-003**	**0.1766**	**5.8529**	**6.0295**	**0.0126**	**3.7000e-004**	**6.4553**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.2698	1.2698	1.2000e-004	2.0000e-005	1.2799
Mobile	2.4500e-003	3.6700e-003	0.0220	5.0000e-005	4.7300e-003	4.0000e-005	4.7700e-003	1.2600e-003	4.0000e-005	1.3000e-003	0.0000	4.4936	4.4936	2.7000e-004	2.5000e-004	4.5739
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**5.8200e-003**	**4.2500e-003**	**0.0225**	**5.0000e-005**	**4.7300e-003**	**8.0000e-005**	**4.8100e-003**	**1.2600e-003**	**8.0000e-005**	**1.3400e-003**	**0.1766**	**5.8529**	**6.0295**	**0.0126**	**3.7000e-004**	**6.4553**

	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	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	6/1/2023	6/30/2023	5	22	

Acres of Grading (Site Preparation Phase): 0

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

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
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**7.1200e-003**	**0.0143**	**0.0199**	**3.0000e-005**		**7.8000e-004**	**7.8000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.7000e-004**	**0.0000**	**2.8128**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.1100e-003	0.0143	0.0199	3.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	2.8086	2.8086	1.7000e-004	0.0000	2.8128
Total	**7.1200e-003**	**0.0143**	**0.0199**	**3.0000e-005**		**7.8000e-004**	**7.8000e-004**		**7.8000e-004**	**7.8000e-004**	**0.0000**	**2.8086**	**2.8086**	**1.7000e-004**	**0.0000**	**2.8128**

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	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	2.4500e-003	3.6700e-003	0.0220	5.0000e-005	4.7300e-003	4.0000e-005	4.7700e-003	1.2600e-003	4.0000e-005	1.3000e-003	0.0000	4.4936	4.4936	2.7000e-004	2.5000e-004	4.5739
Unmitigated	2.4500e-003	3.6700e-003	0.0220	5.0000e-005	4.7300e-003	4.0000e-005	4.7700e-003	1.2600e-003	4.0000e-005	1.3000e-003	0.0000	4.4936	4.4936	2.7000e-004	2.5000e-004	4.5739

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	12,686	12,686
Total	7.01	1.59	0.50	12,686	12,686

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

General Office Building	0.531667	0.052263	0.168651	0.155495	0.027235	0.006385	0.012362	0.016685	0.000479	0.000329	0.023608	0.001135	0.003707

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	0.6435	0.6435	1.0000e-004	1.0000e-005	0.6499
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.6435	0.6435	1.0000e-004	1.0000e-005	0.6499
NaturalGas Mitigated	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6263	0.6263	1.0000e-005	1.0000e-005	0.6300
NaturalGas Unmitigated	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6263	0.6263	1.0000e-005	1.0000e-005	0.6300

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					
General Office Building	11736	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6263	0.6263	1.0000e-005	1.0000e-005	0.6300
Total		**6.0000e-005**	**5.8000e-004**	**4.8000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.6263**	**0.6263**	**1.0000e-005**	**1.0000e-005**	**0.6300**

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					
General Office Building	11736	6.0000e-005	5.8000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6263	0.6263	1.0000e-005	1.0000e-005	0.6300
Total		**6.0000e-005**	**5.8000e-004**	**4.8000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.6263**	**0.6263**	**1.0000e-005**	**1.0000e-005**	**0.6300**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	6955.2		0.6435	1.0000e-004	1.0000e-005	0.6499
Total			**0.6435**	**1.0000e-004**	**1.0000e-005**	**0.6499**

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
General Office Building	6955.2		0.6435	1.0000e-004	1.0000e-005	0.6499
Total			**0.6435**	**1.0000e-004**	**1.0000e-005**	**0.6499**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	3.3100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.3100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	5.0000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.3100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		0.1301	4.1800e-003	1.0000e-004	0.2645
Unmitigated		0.1301	4.1800e-003	1.0000e-004	0.2645

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.1301	4.1800e-003	1.0000e-004	0.2645
Total			**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
General Office Building	0.127968 / 0.0784322		0.1301	4.1800e-003	1.0000e-004	0.2645
Total			**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		0.1360	8.0400e-003	0.0000	0.3369
Unmitigated		0.1360	8.0400e-003	0.0000	0.3369

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
General Office Building	0.67		0.1360	8.0400e-003	0.0000	0.3369
Total			**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

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 Not Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Manteca Prose Residential - Project Construction Emissions Phase 1

Phase 1 Building Construction, Site-wide Prep, Grading, and Paving, and Proposed Offsite Improvements

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.00644
Offsite	0.00000
Site Preparation (2023)	**0.00644**
Onsite	0.02182
Offsite	0.00001
Grading (2023)	**0.02183**
Onsite	0.06930
Offsite	0.00534
Building Construction (2023)	**0.07464**
Onsite	0.03130
Offsite	0.00271
Building Construction (2024)	**0.03401**
Onsite	0.00066
Offsite	0.00001
Paving (2024)	**0.00067**
Onsite	0.00061
Offsite	0.00003
Architectural Coating (2024)	**0.00064**
Total Onsite	**1.30E-01**
Total Offsite	**8.10E-03**

Exhaust PM10 AERMOD Inputs

		(8 hours/day,
Construction Hours	**3,040.00**	**380 workdays)**
Elapsed Hours	**9,120.00**	
Variable Factor	**3.00**	
Site-wide Emissions	**57.84000**	**pounds**
	26,235.76	**grams**
	2.877E+00	**grams/hours**
	7.991E-04	**grams/sec**
Phase 1 Emissions	**202.42**	**pounds**
	91,816.09	**grams**
	1.007E+01	**grams/hours**
	2.797E-03	**grams/sec**
Off-Site Emissions	**16.20**	**pounds**
	7,348.19	**grams**
	8.057E-01	**grams/hour**
	2.238E-04	**grams/sec**

Mitigation Description
Dust Control BMPs.
SJVAPCD Rule 4601 Low-VOC coating/paints

put Adjustments for Project Site Construction Emissions

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**1.533E-05**
Winters Dr	0.25	33.33%	**7.665E-06**
Totals	*0.8*	*100.00%*	*2.299E-05*
Notes:			

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Site Preparation	10	0	0	7.3	20
Grading	30	0	0	7.3	20
Building Construction	300	130	0	7.3	20
Paving	20	0	0	7.3	20
Architectureal Coating	20	0	0	7.3	20
	Totals	**39,000**	**-**		

Diesel-Fueled Vehicle Results	Total Vehicle Trips	Traveled (VMT)
Vendor Trucks	39,000.00	284,700.00
Hauling Trucks	-	-
Total VMT		**284,700**

AERMOD 1,000-ft Radius Adjustment	Total Vehicle Trips	Traveled
Vendor Trucks	39,000.00	29,250.00
Hauling Trucks	-	-
Total VMT		**29,250.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose Residential - Project Construction Emissions Phase 2

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.03680
Offsite	0.00064
Building Construction (2024)	**0.03744**
Onsite	0.02900
Offsite	0.00057
Building Construction (2025)	**0.02957**
Onsite	0.02900
Offsite	0.00057
Architectural Coating (2025)	**0.02957**
Total Onsite	**9.48E-02**
Total Offsite	**1.78E-03**

Exhaust PM10 AERMOD Inputs

Construction Hours	**1,984.00**	**(8 hours/day,**
Elapsed Hours	**5,952.00**	**248 workdays)**
Variable Factor	**3.00**	
On-Site Emissions	**189.60**	**pounds**
	86,001.04	**grams**
	1.445E+01	**grams/hours**
	4.014E-03	**grams/sec**
Off-Site Emissions	**3.56**	**pounds**
	1,614.79	**grams**
	2.713E-01	**grams/hour**
	7.536E-05	**grams/sec**

Mitigation Description

Dust Control BMPs.

SJVAPCD Rule 4601 Low-VOC coatings and paints during project construction.

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**5.162E-06**
Winters Dr	0.25	33.33%	**2.581E-06**
Totals	*0.8*	*100.00%*	*7.743E-06*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 0.25 miles of the project site.

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Building Construction	230	20	0	7.3	20
Architectural Coating	18	0	0	7.3	20
	Totals	**4,600**	**-**		

Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	4,600.00	33,580.00
Hauling Trucks	-	-
Total VMT		**33,580**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled
Vendor Trucks	4,600.00	3,450.00
Hauling Trucks	-	-
Total VMT		**3,450.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose Residential - Mitigated Project Construction Emissions
(Offsite Improvements + Phase 1 Building Construction)

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.00032
Offsite	0.00000
Site Preparation (2023)	**0.00032**
Onsite	0.00154
Offsite	0.00001
Grading (2023)	**0.00155**
Onsite	0.00404
Offsite	0.00534
Building Construction (2023)	**0.00938**
Onsite	0.00208
Offsite	0.00271
Building Construction (2024)	**0.00479**
Onsite	0.00041
Offsite	0.00001
Paving (2024)	**0.00042**
Onsite	0.00004
Offsite	0.00003
Architectural Coating (2024)	**0.00007**
Total Onsite	**8.43E-03**
Total Offsite	**8.10E-03**

Exhaust PM10 AERMOD Inputs

Construction Hours	**3,040.00**	**(8 hours/day, 380 workdays)**
Elapsed Hours	**9,120.00**	
Variable Factor	**3.00**	
Site-wide Emissions	**4.54000**	**pounds**
	2,059.31	**grams**
	2.258E-01	**grams/hours**
	6.272E-05	**grams/sec**
Phase 1 Emissions	**12.32**	**pounds**
	5,588.25	**grams**
	6.127E-01	**grams/hours**
	1.702E-04	**grams/sec**
Off-Site Emissions	**16.20**	**pounds**
	7,348.19	**grams**
	8.057E-01	**grams/hour**
	2.238E-04	**grams/sec**

	Mitigation Description
	Dust Control BMPs.
SJVAPCD Rule 4601	Low-VOC coating/paints
	Tier 4f Engines for off-road construction equipment

put Adjustments for Project Site Construction Emissions

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**1.533E-05**
Winters Dr	0.25	33.33%	**7.665E-06**
Totals	*0.8*	*100.00%*	*2.299E-05*
Notes:			

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Site Preparation	10	0	0	7.3	20
Grading	30	0	0	7.3	20
Building Construction	300	130	0	7.3	20
Paving	20	0	0	7.3	20
Architectureal Coating	20	0	0	7.3	20
	Totals	**39,000**	**-**		

Diesel-Fueled Vehicle Results	Total Vehicle Trips	Traveled (VMT)
Vendor Trucks	39,000.00	284,700.00
Hauling Trucks	-	-
Total VMT		**284,700**

AERMOD 1,000-ft Radius Adjustment	Total Vehicle Trips	Traveled
Vendor Trucks	39,000.00	29,250.00
Hauling Trucks	-	-
Total VMT		**29,250.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose Residential - Project Construction Emissions Phase 2

Phase 2 Building Construction and Architectural Coating

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.00245
Offsite	0.00064
Building Construction (2024)	**0.00309**
Onsite	0.00224
Offsite	0.00057
Building Construction (2025)	**0.00281**
Onsite	0.00004
Offsite	0.00001
Architectural Coating (2025)	**0.00005**
Total Onsite	**4.73E-03**
Total Offsite	**1.22E-03**

Exhaust PM10 AERMOD Inputs

Construction Hours	**1,984.00**	**(8 hours/day,**
Elapsed Hours	**5,952.00**	**248 workdays)**
Variable Factor	**3.00**	
On-Site Emissions	**9.46**	**pounds**
	4,290.98	**grams**
	7.209E-01	**grams/hours**
	2.003E-04	**grams/sec**
Off-Site Emissions	**2.44**	**pounds**
	1,106.76	**grams**
	1.859E-01	**grams/hour**
	5.165E-05	**grams/sec**

Mitigation Description
Dust Control BMPs.
SJVAPCD Rule 4601 Low-VOC coatings and paints during project construction.
Tier 4f Engines for off-road construction equipment

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**3.538E-06**
Winters Dr	0.25	33.33%	**1.769E-06**
Totals	*0.8*	*100.00%*	*5.307E-06*

Notes:
[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.
[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 0.25 miles of the project site.

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Building Construction	230	20	0	7.3	20
Architectural Coating	18	0	0	7.3	20
	Totals	**4,600**	**-**		

Diesel-Fueled Vehicle Results

	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	4,600.00	33,580.00
Hauling Trucks	-	-
Total VMT		**33,580**

AERMOD 1,000-ft Radius Adjustment

	Total Vehicle Trips	Vehicle Miles Traveled
Vendor Trucks	4,600.00	3,450.00
Hauling Trucks	-	-
Total VMT		**3,450.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose Residential - Project Construction Emissions Phase 2

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.03680
Offsite	0.00064
Building Construction (2024)	**0.03744**
Onsite	0.02900
Offsite	0.00057
Building Construction (2025)	**0.02957**
Onsite	0.02900
Offsite	0.00057
Architectural Coating (2025)	**0.02957**
Total Onsite	**9.48E-02**
Total Offsite	**1.78E-03**

Exhaust PM10 AERMOD Inputs

Construction Hours	**1,984.00**	**(8 hours/day,**
Elapsed Hours	**5,952.00**	**248 workdays)**
Variable Factor	**3.00**	
On-Site Emissions	**189.60**	**pounds**
	86,001.04	**grams**
	1.445E+01	**grams/hours**
	4.014E-03	**grams/sec**
Off-Site Emissions	**3.56**	**pounds**
	1,614.79	**grams**
	2.713E-01	**grams/hour**
	7.536E-05	**grams/sec**

Mitigation Description

Dust Control BMPs.

SJVAPCD Rule 4601 Low-VOC coatings and paints during project construction.

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**5.162E-06**
Winters Dr	0.25	33.33%	**2.581E-06**
Totals	*0.8*	*100.00%*	*7.743E-06*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 0.25 miles of the project site.

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Building Construction	230	20	0	7.3	20
Architectural Coating	18	0	0	7.3	20
	Totals	**4,600**	**-**		

Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	4,600.00	33,580.00
Hauling Trucks	-	-
Total VMT		**33,580**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled
Vendor Trucks	4,600.00	3,450.00
Hauling Trucks	-	-
Total VMT		**3,450.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose Residential - Mitigated Project Construction Emissions
(Offsite Improvements + Phase 1 Building Construction)

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	PM10 (Exhaust)
Onsite	0.00032
Offsite	0.00000
Site Preparation (2023)	**0.00032**
Onsite	0.00154
Offsite	0.00001
Grading (2023)	**0.00155**
Onsite	0.00404
Offsite	0.00534
Building Construction (2023)	**0.00938**
Onsite	0.00208
Offsite	0.00271
Building Construction (2024)	**0.00479**
Onsite	0.00041
Offsite	0.00001
Paving (2024)	**0.00042**
Onsite	0.00004
Offsite	0.00003
Architectural Coating (2024)	**0.00007**
Total Onsite	**8.43E-03**
Total Offsite	**8.10E-03**

Exhaust PM10 AERMOD Inputs

Construction Hours	**3,040.00**	**(8 hours/day, 380 workdays)**
Elapsed Hours	**9,120.00**	
Variable Factor	**3.00**	
Site-wide Emissions	**4.54000**	**pounds**
	2,059.31	**grams**
	2.258E-01	**grams/hours**
	6.272E-05	**grams/sec**
Phase 1 Emissions	**12.32**	**pounds**
	5,588.25	**grams**
	6.127E-01	**grams/hours**
	1.702E-04	**grams/sec**
Off-Site Emissions	**16.20**	**pounds**
	7,348.19	**grams**
	8.057E-01	**grams/hour**
	2.238E-04	**grams/sec**

	Mitigation Description
	Dust Control BMPs.
SJVAPCD Rule 4601	Low-VOC coating/paints
	Tier 4f Engines for off-road construction equipment

put Adjustments for Project Site Construction Emissions

Roadway Segment	Length (Miles)	Proportion of Total	PM10 (Exhaust) Emission Rate (g/sec)
Yosemite Avenue	0.5	66.67%	**1.533E-05**
Winters Dr	0.25	33.33%	**7.665E-06**
Totals	*0.8*	*100.00%*	*2.299E-05*
Notes:			

Adjustment for 0.25 mile Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Site Preparation	10	0	0	7.3	20
Grading	30	0	0	7.3	20
Building Construction	300	130	0	7.3	20
Paving	20	0	0	7.3	20
Architectureal Coating	20	0	0	7.3	20
	Totals	**39,000**	**-**		

Diesel-Fueled Vehicle Results	Total Vehicle Trips	Traveled (VMT)
Vendor Trucks	39,000.00	284,700.00
Hauling Trucks	-	-
Total VMT		**284,700**

AERMOD 1,000-ft Radius Adjustment	Total Vehicle Trips	Traveled
Vendor Trucks	39,000.00	29,250.00
Hauling Trucks	-	-
Total VMT		**29,250.00**

Proportion of off-site emissions occuring within 0.25 miles of project site:	**10.2740%**

Manteca Prose - Off-Site Residential Cancer Risks

Mitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates Phase 1: 654819.33 meters easting and 4184988.85 meters northing.

Phase 1 Construction from Feb. 2023 - June 2024

Phase 2 Construction from July 2024 - June 2025

HI = 0.0047

Residential - Infant (AERMOD Receptor ID: 456)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Phase 1 and Sitewide	0.02358	1.1	361	0.25	350	25550	1	10	0.3207	95th Percentile DBR
0 to 1.25	Phase 1 and Sitewide	0.02358	1.1	1090	1.25	350	25550	1	10	4.8412	
1.25 to 2	Phase 2	0.0048	1.1	1090	0.75	350	25550	1	10	0.5913	
2 to 2.5	Phase 2	0.0048	1.1	861	0.25	350	25550	1	3	0.0467	
									Total	**5.7998**	

Residential - Child (AERMOD Receptor ID: 456)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
2 to 9	Phase 1 and Sitewide	0.02358	1.1	861	1.30	350	25550	1	3	1.19	95th Percentile DBR
2 to 9	Phase 2	0.0048	1.1	861	1.00	350	25550	1	3	0.19	
									Total	**1.38**	

Residential - Adult (AERMOD Receptor ID: 456)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
16 to 70	Phase 1 and Sitewide	0.02358	1.1	290	1.30	350	25550	0.73	1	0.10	95th Percentile DBR
16 to 70	Phase 2	0.0048	1.1	290	1.00	350	25550	0.73	1	0.02	
									Total	**0.11**	

Residential - Infant (AERMOD Receptor ID: 451)

9-Feb

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Phase 1 and Sitewide	0.00564	1.1	361	0.25	350	25550	1	10	0.08	95th Percentile DBR
0 to 1.25	Phase 1 and Sitewide	0.00564	1.1	1090	1.25	350	25550	1	10	1.16	
1.25 to 2	Phase 2	0.01913	1.1	1090	0.75	350	25550	1	10	2.36	
2 to 2.5	Phase 2	0.01913	1.1	861	0.25	350	25550	1	3	0.19	
									Total	**3.78**	

Maximum Total **5.80**

Manteca Prose Residential Project - On-Site Residential Cancer Risks

Mitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates: 654773.06 meters easting and 4,184,850.73 meters northing. Construction from July 2024 to June 2025 **HI = 0.1097**

Residential - Infant (AERMOD Receptor ID: 4)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Phase 2	0.00401	1.1	361	0.25	350	25550	1	10	0.05	95th Percentile DBR
0 to 1	Phase 2	0.00401	1.1	1090	0.75	350	25550	1	10	0.49	
									Total	**0.55**	

Residential - Child (AERMOD Receptor ID: 4)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
2 to 9	Phase 2	0.00401	1.1	745	1.00	350	25550	1	3	0.14	95th Percentile DBR
									Total	**0.14**	

Residential - Adult (AERMOD Receptor ID: 4)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 30	Phase 2	0.00401	1.1	330	1.00	350	25550	0.73	1	0.015	95th Percentile DBR
									Total	**0.01**	
									Maximum Total	**0.55**	

Manteca Prose Residential Project - School Cancer Risks (Sierra High School)

Unmitigated Construction - Cancer Risk Calculations

School MIR Coordinates: 654705.80000 meters easting and 4184373.65000 meters northing.

School - Child (AERMOD Receptor ID: 134)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
2 to 16	Site-Wide & Phase 1	0.00844	1.1	745	0.50	250	25550	1	3	0.10	95th Percentile DBR
2 to 16	Phase 2	0.02106	1.1	745	0.50	250	25550	1	3	0.25	
									Total	**0.35**	

School - Adult (AERMOD Receptor ID: 134)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.00844	1.1	335	0.50	250	25550	1	1	0.02	95th Percentile DBR
16 to 17	Phase 2	0.02106	1.1	335	0.50	250	25550	1	1	0.04	
									Total	**0.05**	

Maximum Total	**0.35**	

Manteca Prose Residential Project - School Cancer Risks (Sierra High School)

Mitigated Construction - Cancer Risk Calculations

School MIR Coordinates: 654705.80000 meters easting and 4184373.65000 meters northing.

School - Child (AERMOD Receptor ID: 134)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
2 to 16	Site-Wide & Phase 1	0.00095	1.1	745	0.50	250	25550	1	3	0.01	95th Percentile DBR
2 to 16	Phase 2	0.00045	1.1	745	0.50	250	25550	1	3	0.01	
									Total	**0.02**	

School - Adult (AERMOD Receptor ID: 134)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 17	Site-Wide & Phase 1	0.00095	1.1	335	0.50	250	25550	1	1	0.00	95th Percentile DBR
16 to 17	Phase 2	0.00045	1.1	335	0.50	250	25550	1	1	0.00	
									Total	**0.00**	

Maximum Total	**0.02**	

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
☑	☐	☐	☐	☐	☑	☐	☐

☐ Month ☐ Period ☑ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PHASE2 (Phase 2 Project Source (Building construction))

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	1.00E-7		5	654592.37	4184990.73
		1.00E-7			654586.24	4185192.74
		1.00E-7			654613.82	4185193.87
		1.00E-7			654783.18	4185197.17
		1.00E-7			654792.18	4184995.71

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	2.58E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YOSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	5.16E-6		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YOSAVE	L0000436	654338.76	4184778.55	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000437	654358.73	4184778.94	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000438	654378.71	4184779.32	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000439	654398.69	4184779.70	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000440	654418.66	4184780.08	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000441	654438.64	4184780.46	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000442	654458.61	4184780.84	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000443	654478.59	4184781.23	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000444	654498.56	4184781.61	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000445	654518.54	4184781.99	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000446	654538.51	4184782.37	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000447	654558.49	4184782.75	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000448	654578.46	4184783.13	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000449	654598.44	4184783.52	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000450	654618.41	4184783.90	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000451	654638.39	4184784.31	8.03	3.12	1.32E-7	10.00		9.29	1.45
	L0000452	654658.36	4184784.75	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000453	654678.34	4184785.18	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000454	654698.31	4184785.61	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000455	654718.28	4184786.05	8.14	3.12	1.32E-7	10.00		9.29	1.45
	L0000456	654738.26	4184786.48	8.21	3.12	1.32E-7	10.00		9.29	1.45
	L0000457	654758.23	4184786.92	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000458	654778.21	4184787.35	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000459	654798.18	4184787.80	8.23	3.12	1.32E-7	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YOSAVE	L0000460	654818.15	4184788.53	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000461	654838.11	4184789.26	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000462	654858.08	4184789.99	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000463	654878.04	4184790.72	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000464	654898.01	4184791.45	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000465	654917.97	4184792.18	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000466	654937.94	4184792.91	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000467	654957.90	4184793.64	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000468	654977.87	4184794.37	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000469	654997.84	4184795.10	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000470	655017.80	4184795.83	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000471	655037.77	4184796.56	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000472	655057.73	4184797.29	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000473	655077.70	4184798.02	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000474	655097.66	4184798.75	8.23	3.12	1.32E-7	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000475	654728.70	4184777.19	8.22	3.12	2.15E-7	10.00		8.86	1.45
	L0000476	654729.67	4184758.17	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000477	654730.64	4184739.15	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000478	654731.61	4184720.13	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000479	654732.57	4184701.11	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000480	654733.54	4184682.09	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000481	654736.88	4184663.50	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000482	654742.70	4184645.37	8.33	3.12	2.15E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000483	654748.53	4184627.24	8.52	3.12	2.15E-7	10.00		8.86	1.45
	L0000484	654754.36	4184609.10	8.53	3.12	2.15E-7	10.00		8.86	1.45
	L0000485	654760.19	4184590.97	8.53	3.12	2.15E-7	10.00		8.86	1.45
	L0000486	654766.02	4184572.84	8.53	3.12	2.15E-7	10.00		8.86	1.45

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	654743.38	4184850.73	PHASE1SR	7.92	
2	654756.36	4184850.73	PHASE1SR	7.92	
3	654765.64	4184850.73	PHASE1SR	7.92	
4	654773.06	4184850.73	PHASE1SR	7.92	
5	654435.48	4185342.25		7.62	
6	654667.05	4184819.06		7.92	
7	654678.16	4184819.69		7.92	
8	654688.65	4184820.33		7.92	
9	654699.45	4184820.01		7.92	
10	654741.32	4184821.27		8.06	
11	654752.93	4184821.27		8.07	
12	654764.44	4184821.27		8.07	
13	654772.48	4184821.48		8.07	
14	654666.65	4184813.31		7.92	
15	654677.77	4184813.70		7.92	
16	654690.06	4184813.89		7.92	
17	654700.01	4184813.70		7.92	
18	654741.18	4184813.70		8.13	
19	654754.25	4184814.67		8.13	
20	654764.20	4184815.26		8.13	
21	654773.18	4184815.06		8.13	
22	654742.55	4184844.33		7.92	
23	654755.62	4184844.52		7.92	
24	654765.96	4184844.52		7.92	
25	654772.79	4184844.13		7.92	
26	654666.26	4184848.03		7.92	
27	654665.87	4184842.57		7.92	
28	654674.85	4184848.42		7.92	
29	654675.24	4184843.55		7.92	
30	654684.80	4184848.62		7.92	

31	654685.19	4184842.96		7.92	
32	654694.75	4184848.81		7.92	
33	654694.75	4184843.94		7.92	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors
3	NESTED	Nested Grid receptors
4	FENCEGRD	Receptors generated from Fenceline Grid
5	Hospital	
6	RES	
7	School	
8	PHASE1SR	Phase 1 Sensitive Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			OAKLAND/WSO AP
Upper Air		2013			

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.31708	ug/m^3	654684.80	4184848.62	7.92	0.00	7.92	1/12/2015, 9
8-HR	1ST	0.68479	ug/m^3	654743.38	4184850.73	7.92	0.00	7.92	1/5/2013, 24
ANNUAL		0.07764	ug/m^3	654773.06	4184850.73	7.92	0.00	7.92	

PM10 - Concentration - Source Group: PHASE2

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	1.31637	ug/m^3	654684.80	4184848.62	7.92	0.00	7.92	1/12/2015, 9
8-HR	1ST	0.68457	ug/m^3	654743.38	4184850.73	7.92	0.00	7.92	1/5/2013, 24
ANNUAL		0.07743	ug/m^3	654773.06	4184850.73	7.92	0.00	7.92	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00239	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	1/6/2017, 9
8-HR	1ST	0.00115	ug/m^3	654700.01	4184813.70	7.92	0.00	7.92	1/18/2015, 8
ANNUAL		0.00013	ug/m^3	654700.01	4184813.70	7.92	0.00	7.92	

Results Summary

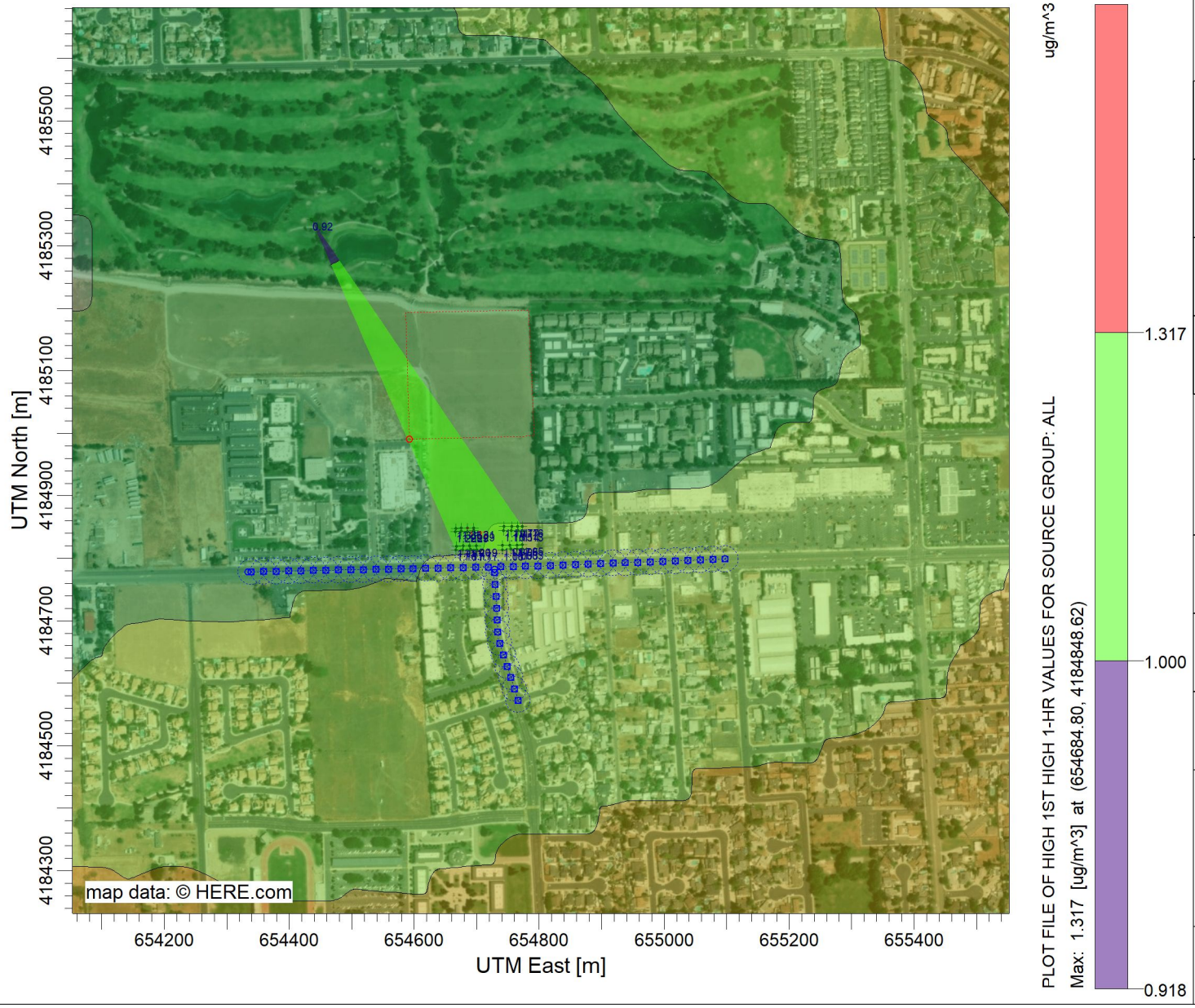
C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: YOSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00174	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	12/25/2017, 9
8-HR	1ST	0.00129	ug/m^3	654666.65	4184813.31	7.92	0.00	7.92	12/9/2017, 8
ANNUAL		0.00034	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	

PROJECT TITLE:

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R



COMMENTS:

SOURCES:

3

RECEPTORS:

33

OUTPUT TYPE:

Concentration

MAX:

1.317 ug/m^3

COMPANY NAME:

MODELER:

DATE:

5/26/2022

SCALE: 1:9,873

0 0.3 km

PROJECT NO.:

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
☑	☐	☐	☐	☐	☑	☐	☐

☐ Month ☐ Period ☑ Annual

Exponential Decay

Default half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: PHASE2 (Phase 2 Project Source (Building construction))

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	4.99E-9		5	654592.37	4184990.73
		4.99E-9			654586.24	4185192.74
		4.99E-9			654613.82	4185193.87
		4.99E-9			654783.18	4185197.17
		4.99E-9			654792.18	4184995.71

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	1.77E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YOSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	3.54E-6		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YOSAVE	L0000436	654338.76	4184778.55	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000437	654358.73	4184778.94	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000438	654378.71	4184779.32	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000439	654398.69	4184779.70	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000440	654418.66	4184780.08	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000441	654438.64	4184780.46	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000442	654458.61	4184780.84	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000443	654478.59	4184781.23	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000444	654498.56	4184781.61	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000445	654518.54	4184781.99	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000446	654538.51	4184782.37	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000447	654558.49	4184782.75	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000448	654578.46	4184783.13	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000449	654598.44	4184783.52	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000450	654618.41	4184783.90	7.92	3.12	9.07E-8	10.00		9.29	1.45
	L0000451	654638.39	4184784.31	8.03	3.12	9.07E-8	10.00		9.29	1.45
	L0000452	654658.36	4184784.75	8.13	3.12	9.07E-8	10.00		9.29	1.45
	L0000453	654678.34	4184785.18	8.13	3.12	9.07E-8	10.00		9.29	1.45
	L0000454	654698.31	4184785.61	8.13	3.12	9.07E-8	10.00		9.29	1.45
	L0000455	654718.28	4184786.05	8.14	3.12	9.07E-8	10.00		9.29	1.45
	L0000456	654738.26	4184786.48	8.21	3.12	9.07E-8	10.00		9.29	1.45
	L0000457	654758.23	4184786.92	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000458	654778.21	4184787.35	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000459	654798.18	4184787.80	8.23	3.12	9.07E-8	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YOSAVE	L0000460	654818.15	4184788.53	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000461	654838.11	4184789.26	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000462	654858.08	4184789.99	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000463	654878.04	4184790.72	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000464	654898.01	4184791.45	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000465	654917.97	4184792.18	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000466	654937.94	4184792.91	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000467	654957.90	4184793.64	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000468	654977.87	4184794.37	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000469	654997.84	4184795.10	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000470	655017.80	4184795.83	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000471	655037.77	4184796.56	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000472	655057.73	4184797.29	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000473	655077.70	4184798.02	8.23	3.12	9.07E-8	10.00		9.29	1.45
	L0000474	655097.66	4184798.75	8.23	3.12	9.07E-8	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000475	654728.70	4184777.19	8.22	3.12	1.47E-7	10.00		8.86	1.45
	L0000476	654729.67	4184758.17	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000477	654730.64	4184739.15	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000478	654731.61	4184720.13	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000479	654732.57	4184701.11	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000480	654733.54	4184682.09	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000481	654736.88	4184663.50	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000482	654742.70	4184645.37	8.33	3.12	1.47E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000483	654748.53	4184627.24	8.52	3.12	1.47E-7	10.00		8.86	1.45
	L0000484	654754.36	4184609.10	8.53	3.12	1.47E-7	10.00		8.86	1.45
	L0000485	654760.19	4184590.97	8.53	3.12	1.47E-7	10.00		8.86	1.45
	L0000486	654766.02	4184572.84	8.53	3.12	1.47E-7	10.00		8.86	1.45

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	654743.38	4184850.73	PHASE1SR	7.92	
2	654756.36	4184850.73	PHASE1SR	7.92	
3	654765.64	4184850.73	PHASE1SR	7.92	
4	654773.06	4184850.73	PHASE1SR	7.92	
5	654435.48	4185342.25		7.62	
6	654667.05	4184819.06		7.92	
7	654678.16	4184819.69		7.92	
8	654688.65	4184820.33		7.92	
9	654699.45	4184820.01		7.92	
10	654741.32	4184821.27		8.06	
11	654752.93	4184821.27		8.07	
12	654764.44	4184821.27		8.07	
13	654772.48	4184821.48		8.07	
14	654666.65	4184813.31		7.92	
15	654677.77	4184813.70		7.92	
16	654690.06	4184813.89		7.92	
17	654700.01	4184813.70		7.92	
18	654741.18	4184813.70		8.13	
19	654754.25	4184814.67		8.13	
20	654764.20	4184815.26		8.13	
21	654773.18	4184815.06		8.13	
22	654742.55	4184844.33		7.92	
23	654755.62	4184844.52		7.92	
24	654765.96	4184844.52		7.92	
25	654772.79	4184844.13		7.92	
26	654666.26	4184848.03		7.92	
27	654665.87	4184842.57		7.92	
28	654674.85	4184848.42		7.92	
29	654675.24	4184843.55		7.92	
30	654684.80	4184848.62		7.92	

31	654685.19	4184842.96		7.92	
32	654694.75	4184848.81		7.92	
33	654694.75	4184843.94		7.92	

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors
3	NESTED	Nested Grid receptors
4	FENCEGRD	Receptors generated from Fenceline Grid
5	Hospital	
6	RES	
7	School	
8	PHASE1SR	Phase 1 Sensitive Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface Upper Air		2013 2013			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

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PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.06617	ug/m^3	654684.80	4184848.62	7.92	0.00	7.92	1/12/2015, 9
8-HR	1ST	0.03431	ug/m^3	654743.38	4184850.73	7.92	0.00	7.92	1/5/2013, 24
ANNUAL		0.00401	ug/m^3	654773.06	4184850.73	7.92	0.00	7.92	

PM10 - Concentration - Source Group: PHASE2

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.06568	ug/m^3	654684.80	4184848.62	7.92	0.00	7.92	1/12/2015, 9
8-HR	1ST	0.03416	ug/m^3	654743.38	4184850.73	7.92	0.00	7.92	1/5/2013, 24
ANNUAL		0.00386	ug/m^3	654773.06	4184850.73	7.92	0.00	7.92	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00164	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	1/6/2017, 9
8-HR	1ST	0.00079	ug/m^3	654700.01	4184813.70	7.92	0.00	7.92	1/18/2015, 8
ANNUAL		0.00009	ug/m^3	654690.06	4184813.89	7.92	0.00	7.92	

Results Summary

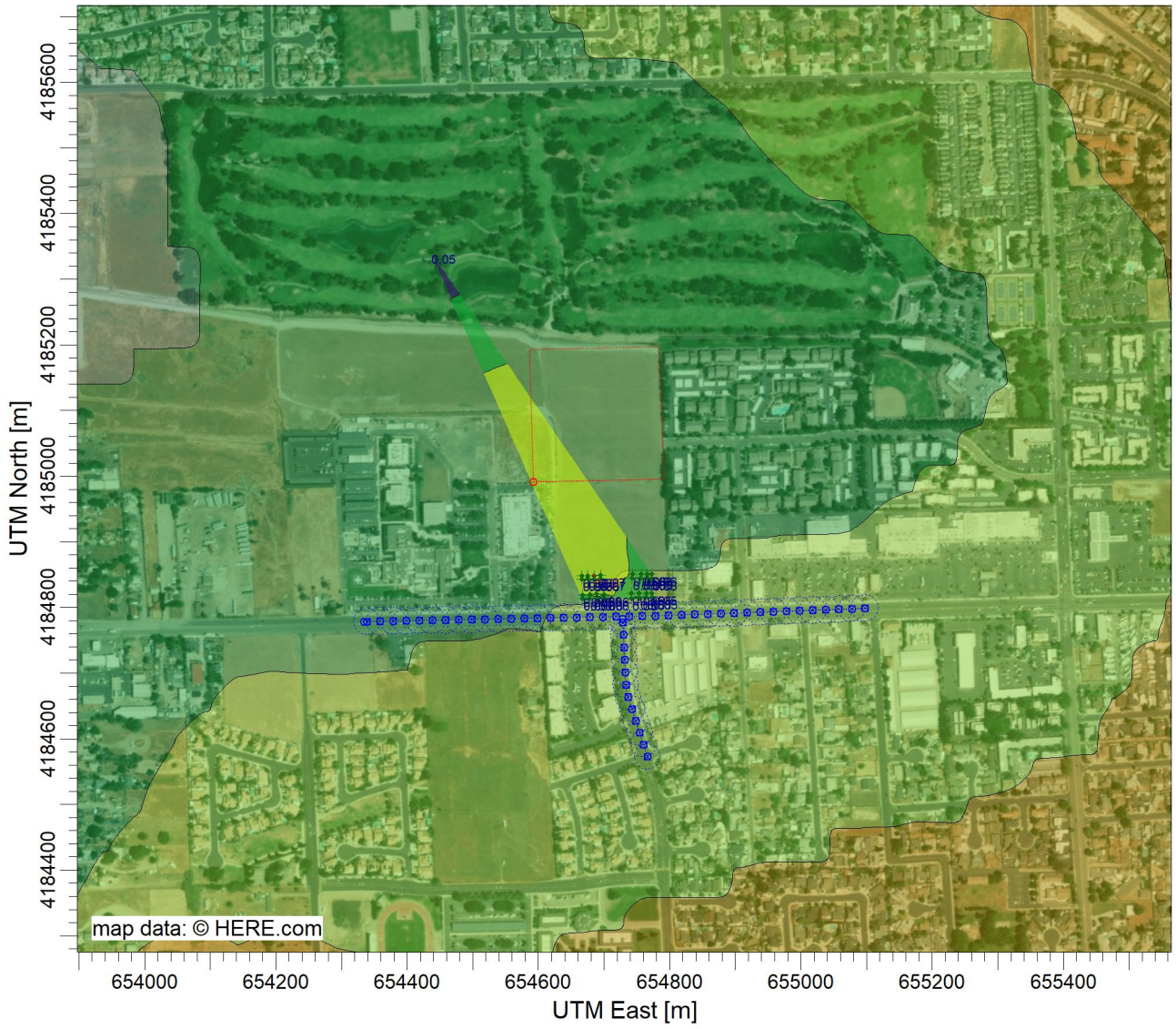
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PM10 - Concentration - Source Group: YOSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00119	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	12/25/2017, 9
8-HR	1ST	0.00089	ug/m^3	654741.18	4184813.70	8.13	0.00	8.13	12/9/2017, 8
ANNUAL		0.00023	ug/m^3	654700.01	4184813.70	7.92	0.00	7.92	

PROJECT TITLE:

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R



PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 6.6E-02 [ug/m^3] at (654684.80, 4184848.62)

4.6E-02 5.0E-02 6.0E-02 6.6E-02

COMMENTS:	SOURCES: **3**	COMPANY NAME:	
	RECEPTORS: **33**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:10,485 0 0.3 km	
	MAX: **6.6E-02 ug/m^3**	DATE: **5/26/2022**	PROJECT NO.:

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☑ 8 ☐ 12 ☐ 24

☐ Month ☐ Period ☑ Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PHS1 (Phase 1 Building Construction/Arch Coatings)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.85	3.00	8.52E-8		5	654621.05	4184990.73
		8.52E-8			654786.16	4184990.73
		8.52E-8			654794.24	4184991.09
		8.52E-8			654801.38	4184803.23
		8.52E-8			654627.31	4184801.23

Source Type: AREA POLY

Source: STWIDE (Sitework/Grading/Paving + Offsite)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	9.95E-9		11	654584.08	4185195.59
		9.95E-9			654786.16	4185197.38
		9.95E-9			654802.22	4184795.84
		9.95E-9			654804.56	4184774.27
		9.95E-9			654743.92	4184772.20
		9.95E-9			654745.98	4184748.10
		9.95E-9			654714.30	4184748.79
		9.95E-9			654714.30	4184772.89
		9.95E-9			654627.53	4184772.20
		9.95E-9			654620.58	4184991.73
		9.95E-9			654593.31	4184991.80

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	7.67E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	0.00002		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000400	654338.76	4184778.55	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000401	654358.73	4184778.94	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000402	654378.71	4184779.32	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000403	654398.69	4184779.70	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000404	654418.66	4184780.08	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000405	654438.64	4184780.46	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000406	654458.61	4184780.84	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000407	654478.59	4184781.23	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000408	654498.56	4184781.61	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000409	654518.54	4184781.99	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000410	654538.51	4184782.37	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000411	654558.49	4184782.75	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000412	654578.46	4184783.13	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000413	654598.44	4184783.52	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000414	654618.41	4184783.90	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000415	654638.39	4184784.31	8.03	3.12	3.92E-7	10.00		9.29	1.45
	L0000416	654658.36	4184784.75	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000417	654678.34	4184785.18	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000418	654698.31	4184785.61	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000419	654718.28	4184786.05	8.14	3.12	3.92E-7	10.00		9.29	1.45
	L0000420	654738.26	4184786.48	8.21	3.12	3.92E-7	10.00		9.29	1.45
	L0000421	654758.23	4184786.92	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000422	654778.21	4184787.35	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000423	654798.18	4184787.80	8.23	3.12	3.92E-7	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000424	654818.15	4184788.53	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000425	654838.11	4184789.26	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000426	654858.08	4184789.99	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000427	654878.04	4184790.72	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000428	654898.01	4184791.45	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000429	654917.97	4184792.18	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000430	654937.94	4184792.91	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000431	654957.90	4184793.64	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000432	654977.87	4184794.37	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000433	654997.84	4184795.10	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000434	655017.80	4184795.83	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000435	655037.77	4184796.56	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000436	655057.73	4184797.29	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000437	655077.70	4184798.02	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000438	655097.66	4184798.75	8.23	3.12	3.92E-7	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000439	654728.70	4184777.19	8.22	3.12	6.39E-7	10.00		8.86	1.45
	L0000440	654729.67	4184758.17	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000441	654730.64	4184739.15	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000442	654731.61	4184720.13	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000443	654732.57	4184701.11	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000444	654733.54	4184682.09	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000445	654736.88	4184663.50	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000446	654742.70	4184645.37	8.33	3.12	6.39E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000447	654748.53	4184627.24	8.52	3.12	6.39E-7	10.00		8.86	1.45
	L0000448	654754.36	4184609.10	8.53	3.12	6.39E-7	10.00		8.86	1.45
	L0000449	654760.19	4184590.97	8.53	3.12	6.39E-7	10.00		8.86	1.45
	L0000450	654766.02	4184572.84	8.53	3.12	6.39E-7	10.00		8.86	1.45

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface Upper Air		2013 2013			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2.54415	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	12/26/2013, 9
8-HR	1ST	1.84430	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	11/4/2014, 8
ANNUAL		0.36528	ug/m^3	654824.54	4184870.60	7.92	0.00	7.92	

PM10 - Concentration - Source Group: PHS1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2.27334	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	12/26/2013, 9
8-HR	1ST	1.62868	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	11/4/2014, 8
ANNUAL		0.31644	ug/m^3	654824.54	4184870.60	7.92	0.00	7.92	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00986	ug/m^3	654761.28	4184624.19	8.53	0.00	8.53	2/19/2015, 17
8-HR	1ST	0.00561	ug/m^3	654715.52	4184673.44	8.23	0.00	8.23	12/20/2014, 24
ANNUAL		0.00209	ug/m^3	654760.45	4184674.18	8.29	0.00	8.29	

Results Summary

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PM10 - Concentration - Source Group: STWIDE

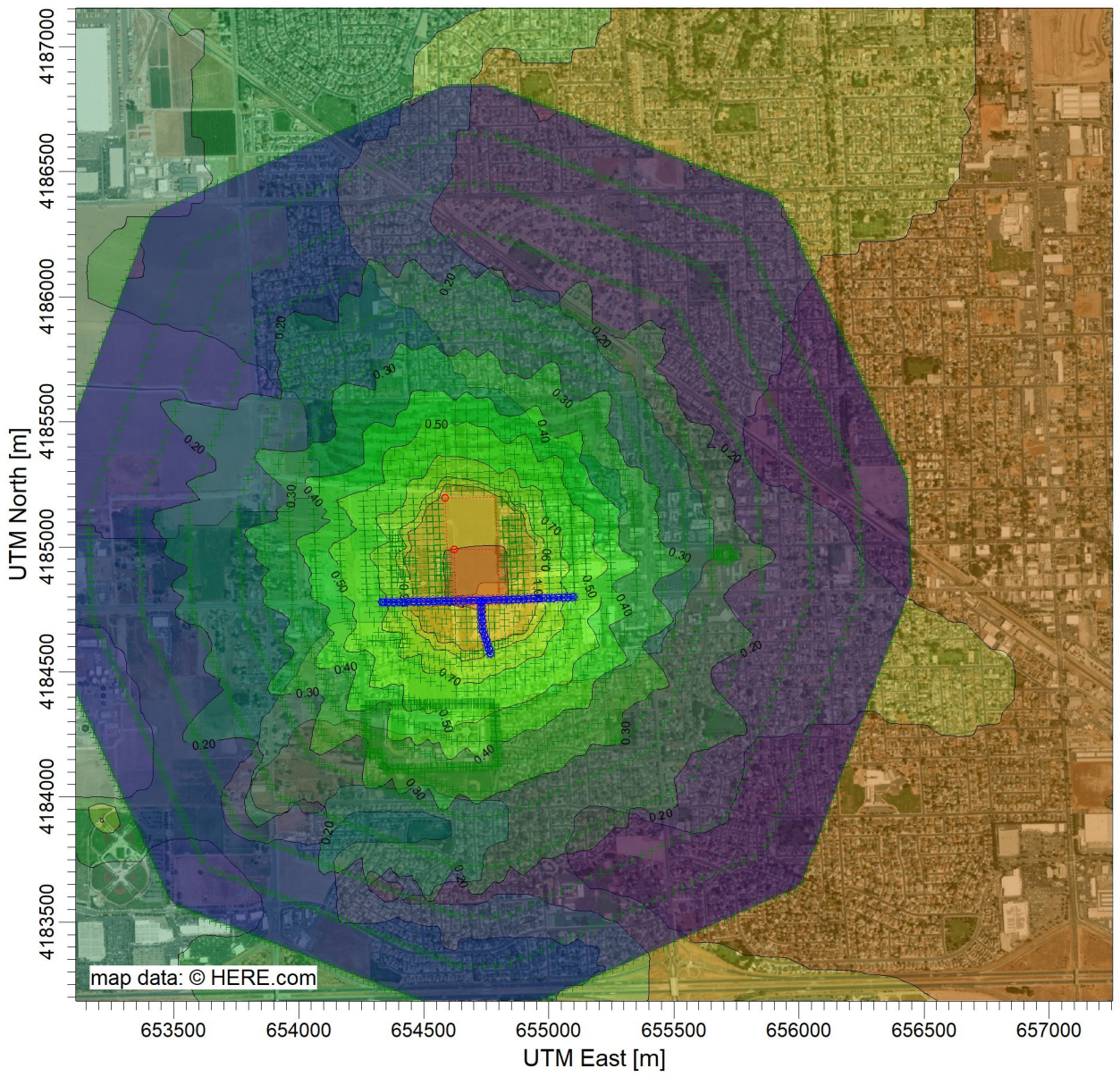
Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.38772	ug/m^3	654714.28	4184748.43	8.23	0.00	8.23	1/12/2015, 9
8-HR	1ST	0.24968	ug/m^3	654714.28	4184748.43	8.23	0.00	8.23	10/17/2014, 8
ANNUAL		0.04892	ug/m^3	654822.46	4184917.90	7.92	0.00	7.92	

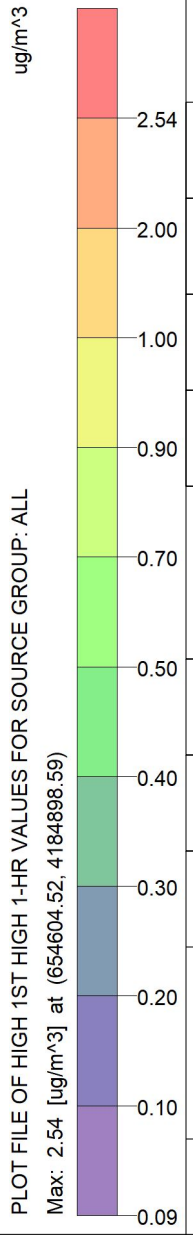
PM10 - Concentration - Source Group: YSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00745	ug/m^3	654373.25	4184785.81	7.92	0.00	7.92	1/23/2017, 9
8-HR	1ST	0.00555	ug/m^3	654598.08	4184794.66	7.92	0.00	7.92	12/9/2017, 8
ANNUAL		0.00148	ug/m^3	654878.67	4184778.21	8.23	0.00	8.23	

PROJECT TITLE:

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R





COMMENTS:

SOURCES:

4

RECEPTORS:

3146

OUTPUT TYPE:

Concentration

MAX:

2.54 ug/m^3

COMPANY NAME:

MODELER:

DATE:

5/26/2022

SCALE: 1:27,028

0 0.5 km

PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

- [x] Regulatory Default
- [ ] Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

- [x] Concentration
- [ ] Total Deposition (Dry & Wet)
- [ ] Dry Deposition
- [ ] Wet Deposition

Plume Depletion

- [ ] Dry Removal
- [ ] Wet Removal

Output Warnings

- [ ] No Output Warnings
- [ ] Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
■	☐	☐	☐	☐	■	☐	☐

- [ ] Month
- [ ] Period
- [x] Annual

Exponential Decay

Default half-life of 4 hrs will be used

Terrain Height Options

- [ ] Flat
- [x] Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- [ ] Yes
- [x] No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: PHS2 (Phase 2 Project Source (Building construction))

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	9.88E-8		4	654593.36	4184991.88
		9.88E-8			654583.17	4185196.09
		9.88E-8			654782.39	4185196.32
		9.88E-8			654790.84	4184991.21

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	2.58E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	5.16E-6		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000451	654338.76	4184778.55	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000452	654358.73	4184778.94	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000453	654378.71	4184779.32	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000454	654398.69	4184779.70	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000455	654418.66	4184780.08	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000456	654438.64	4184780.46	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000457	654458.61	4184780.84	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000458	654478.59	4184781.23	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000459	654498.56	4184781.61	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000460	654518.54	4184781.99	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000461	654538.51	4184782.37	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000462	654558.49	4184782.75	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000463	654578.46	4184783.13	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000464	654598.44	4184783.52	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000465	654618.41	4184783.90	7.92	3.12	1.32E-7	10.00		9.29	1.45
	L0000466	654638.39	4184784.31	8.03	3.12	1.32E-7	10.00		9.29	1.45
	L0000467	654658.36	4184784.75	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000468	654678.34	4184785.18	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000469	654698.31	4184785.61	8.13	3.12	1.32E-7	10.00		9.29	1.45
	L0000470	654718.28	4184786.05	8.14	3.12	1.32E-7	10.00		9.29	1.45
	L0000471	654738.26	4184786.48	8.21	3.12	1.32E-7	10.00		9.29	1.45
	L0000472	654758.23	4184786.92	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000473	654778.21	4184787.35	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000474	654798.18	4184787.80	8.23	3.12	1.32E-7	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000475	654818.15	4184788.53	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000476	654838.11	4184789.26	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000477	654858.08	4184789.99	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000478	654878.04	4184790.72	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000479	654898.01	4184791.45	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000480	654917.97	4184792.18	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000481	654937.94	4184792.91	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000482	654957.90	4184793.64	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000483	654977.87	4184794.37	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000484	654997.84	4184795.10	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000485	655017.80	4184795.83	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000486	655037.77	4184796.56	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000487	655057.73	4184797.29	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000488	655077.70	4184798.02	8.23	3.12	1.32E-7	10.00		9.29	1.45
	L0000489	655097.66	4184798.75	8.23	3.12	1.32E-7	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000490	654728.70	4184777.19	8.22	3.12	2.15E-7	10.00		8.86	1.45
	L0000491	654729.67	4184758.17	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000492	654730.64	4184739.15	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000493	654731.61	4184720.13	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000494	654732.57	4184701.11	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000495	654733.54	4184682.09	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000496	654736.88	4184663.50	8.23	3.12	2.15E-7	10.00		8.86	1.45
	L0000497	654742.70	4184645.37	8.33	3.12	2.15E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000498	654748.53	4184627.24	8.52	3.12	2.15E-7	10.00		8.86	1.45
	L0000499	654754.36	4184609.10	8.53	3.12	2.15E-7	10.00		8.86	1.45
	L0000500	654760.19	4184590.97	8.53	3.12	2.15E-7	10.00		8.86	1.45
	L0000501	654766.02	4184572.84	8.53	3.12	2.15E-7	10.00		8.86	1.45

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			OAKLAND/WSO AP
Upper Air		2013			

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2.63514	ug/m^3	654559.10	4185149.24	7.62	0.00	7.62	12/26/2013, 9
8-HR	1ST	1.87134	ug/m^3	654561.90	4185078.12	7.62	0.00	7.62	11/4/2014, 8
ANNUAL		0.38307	ug/m^3	654816.20	4185059.79	7.78	0.00	7.78	

PM10 - Concentration - Source Group: PHS2

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	2.63501	ug/m^3	654559.10	4185149.24	7.62	0.00	7.62	12/26/2013, 9
8-HR	1ST	1.87121	ug/m^3	654561.90	4185078.12	7.62	0.00	7.62	11/4/2014, 8
ANNUAL		0.38303	ug/m^3	654816.20	4185059.79	7.78	0.00	7.78	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00332	ug/m^3	654761.28	4184624.19	8.53	0.00	8.53	2/19/2015, 17
8-HR	1ST	0.00189	ug/m^3	654715.52	4184673.44	8.23	0.00	8.23	12/20/2014, 24
ANNUAL		0.00070	ug/m^3	654760.45	4184674.18	8.29	0.00	8.29	

Results Summary

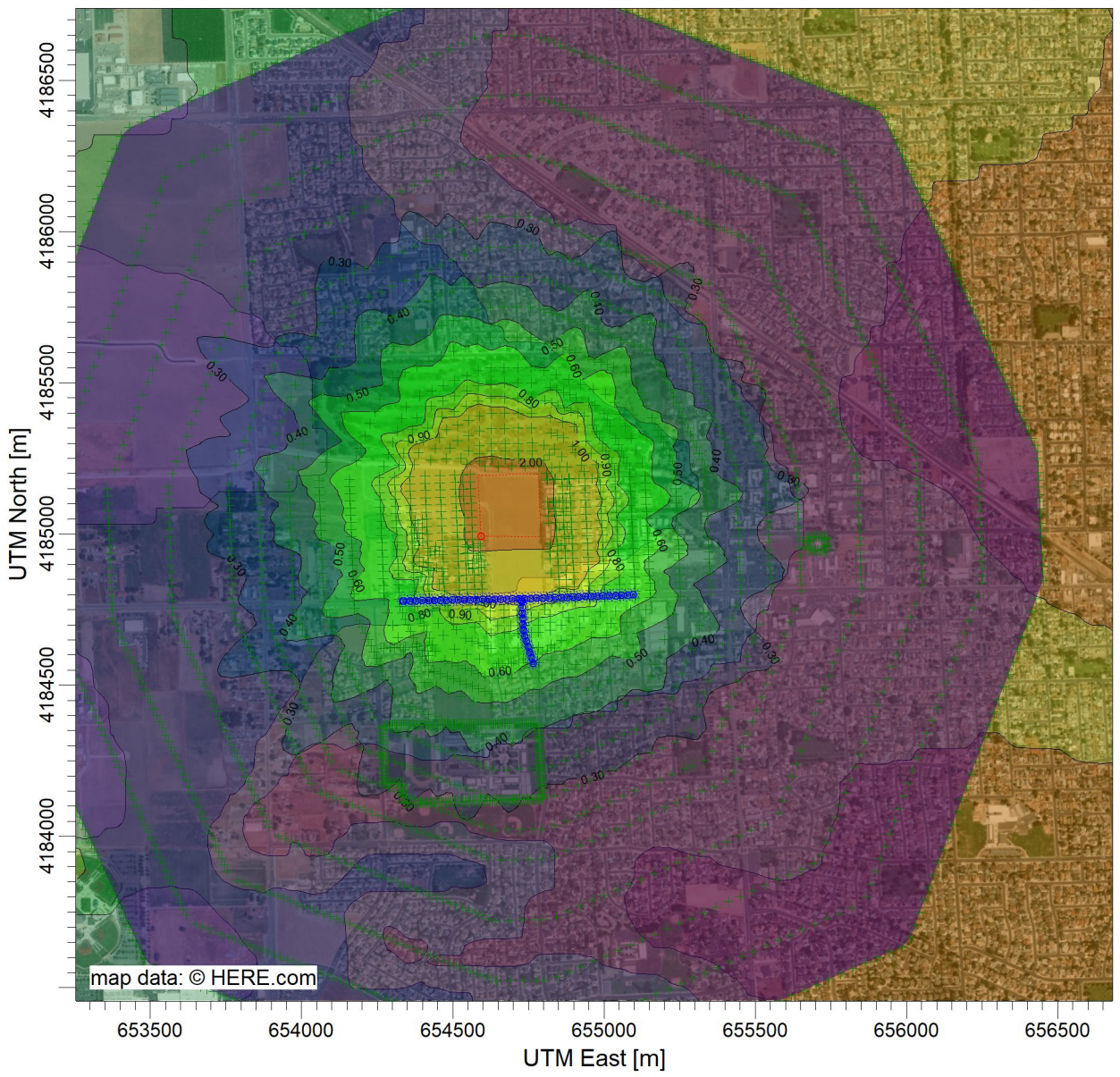
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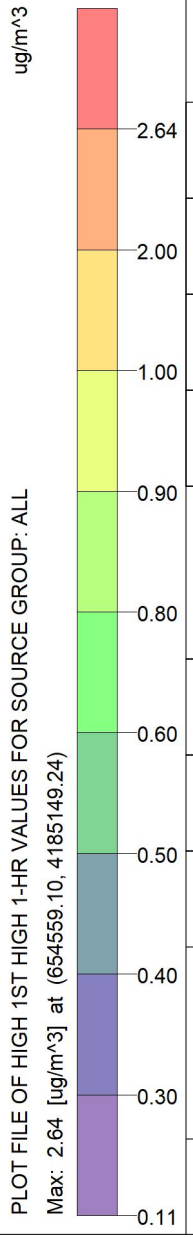
PM10 - Concentration - Source Group: YSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00251	ug/m^3	654373.25	4184785.81	7.92	0.00	7.92	1/23/2017, 9
8-HR	1ST	0.00187	ug/m^3	654598.08	4184794.66	7.92	0.00	7.92	12/9/2017, 8
ANNUAL		0.00050	ug/m^3	654878.67	4184778.21	8.23	0.00	8.23	

PROJECT TITLE:

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COMMENTS:

SOURCES:

3

RECEPTORS:

3146

OUTPUT TYPE:

Concentration

MAX:

2.64 ug/m^3

COMPANY NAME:

MODELER:

DATE:

5/26/2022

SCALE: 1:22,353

0 0.5 km

PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

- [x] Regulatory Default
- [ ] Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

- [x] Concentration
- [ ] Total Deposition (Dry & Wet)
- [ ] Dry Deposition
- [ ] Wet Deposition

Plume Depletion

- [ ] Dry Removal
- [ ] Wet Removal

Output Warnings

- [ ] No Output Warnings
- [ ] Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
■	☐	☐	☐	☐	■	☐	☐

- [ ] Month
- [ ] Period
- [x] Annual

Exponential Decay

Half-life of 4 hrs will be used

Terrain Height Options

- [ ] Flat
- [x] Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- [ ] Yes
- [x] No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PHS1 (Phase 1 Building Construction/Arch Coatings)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.85	3.00	5.20E-9		5	654621.05	4184990.73
		5.20E-9			654786.16	4184990.73
		5.20E-9			654794.24	4184991.09
		5.20E-9			654801.38	4184803.23
		5.20E-9			654627.31	4184801.23

Source Type: AREA POLY

Source: STWIDE (Sitework/Grading/Paving + Offsite)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	7.81E-10		11	654584.08	4185195.59
		7.81E-10			654786.16	4185197.38
		7.81E-10			654802.22	4184795.84
		7.81E-10			654804.56	4184774.27
		7.81E-10			654743.92	4184772.20
		7.81E-10			654745.98	4184748.10
		7.81E-10			654714.30	4184748.79
		7.81E-10			654714.30	4184772.89
		7.81E-10			654627.53	4184772.20
		7.81E-10			654620.58	4184991.73
		7.81E-10			654593.31	4184991.80

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	7.67E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	0.00002		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000400	654338.76	4184778.55	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000401	654358.73	4184778.94	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000402	654378.71	4184779.32	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000403	654398.69	4184779.70	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000404	654418.66	4184780.08	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000405	654438.64	4184780.46	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000406	654458.61	4184780.84	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000407	654478.59	4184781.23	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000408	654498.56	4184781.61	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000409	654518.54	4184781.99	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000410	654538.51	4184782.37	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000411	654558.49	4184782.75	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000412	654578.46	4184783.13	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000413	654598.44	4184783.52	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000414	654618.41	4184783.90	7.92	3.12	3.92E-7	10.00		9.29	1.45
	L0000415	654638.39	4184784.31	8.03	3.12	3.92E-7	10.00		9.29	1.45
	L0000416	654658.36	4184784.75	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000417	654678.34	4184785.18	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000418	654698.31	4184785.61	8.13	3.12	3.92E-7	10.00		9.29	1.45
	L0000419	654718.28	4184786.05	8.14	3.12	3.92E-7	10.00		9.29	1.45
	L0000420	654738.26	4184786.48	8.21	3.12	3.92E-7	10.00		9.29	1.45
	L0000421	654758.23	4184786.92	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000422	654778.21	4184787.35	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000423	654798.18	4184787.80	8.23	3.12	3.92E-7	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000424	654818.15	4184788.53	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000425	654838.11	4184789.26	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000426	654858.08	4184789.99	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000427	654878.04	4184790.72	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000428	654898.01	4184791.45	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000429	654917.97	4184792.18	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000430	654937.94	4184792.91	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000431	654957.90	4184793.64	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000432	654977.87	4184794.37	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000433	654997.84	4184795.10	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000434	655017.80	4184795.83	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000435	655037.77	4184796.56	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000436	655057.73	4184797.29	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000437	655077.70	4184798.02	8.23	3.12	3.92E-7	10.00		9.29	1.45
	L0000438	655097.66	4184798.75	8.23	3.12	3.92E-7	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000439	654728.70	4184777.19	8.22	3.12	6.39E-7	10.00		8.86	1.45
	L0000440	654729.67	4184758.17	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000441	654730.64	4184739.15	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000442	654731.61	4184720.13	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000443	654732.57	4184701.11	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000444	654733.54	4184682.09	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000445	654736.88	4184663.50	8.23	3.12	6.39E-7	10.00		8.86	1.45
	L0000446	654742.70	4184645.37	8.33	3.12	6.39E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000447	654748.53	4184627.24	8.52	3.12	6.39E-7	10.00		8.86	1.45
	L0000448	654754.36	4184609.10	8.53	3.12	6.39E-7	10.00		8.86	1.45
	L0000449	654760.19	4184590.97	8.53	3.12	6.39E-7	10.00		8.86	1.45
	L0000450	654766.02	4184572.84	8.53	3.12	6.39E-7	10.00		8.86	1.45

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			OAKLAND/WSO AP
Upper Air		2013			

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

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PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.16122	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	12/26/2013, 9
8-HR	1ST	0.11740	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	11/4/2014, 8
ANNUAL		0.02358	ug/m^3	654824.54	4184870.60	7.92	0.00	7.92	

PM10 - Concentration - Source Group: PHS1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.13868	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	12/26/2013, 9
8-HR	1ST	0.09935	ug/m^3	654604.52	4184898.59	7.92	0.00	7.92	11/4/2014, 8
ANNUAL		0.01930	ug/m^3	654824.54	4184870.60	7.92	0.00	7.92	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00986	ug/m^3	654761.28	4184624.19	8.53	0.00	8.53	2/19/2015, 17
8-HR	1ST	0.00561	ug/m^3	654715.52	4184673.44	8.23	0.00	8.23	12/20/2014, 24
ANNUAL		0.00209	ug/m^3	654760.45	4184674.18	8.29	0.00	8.29	

Results Summary

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PM10 - Concentration - Source Group: STWIDE

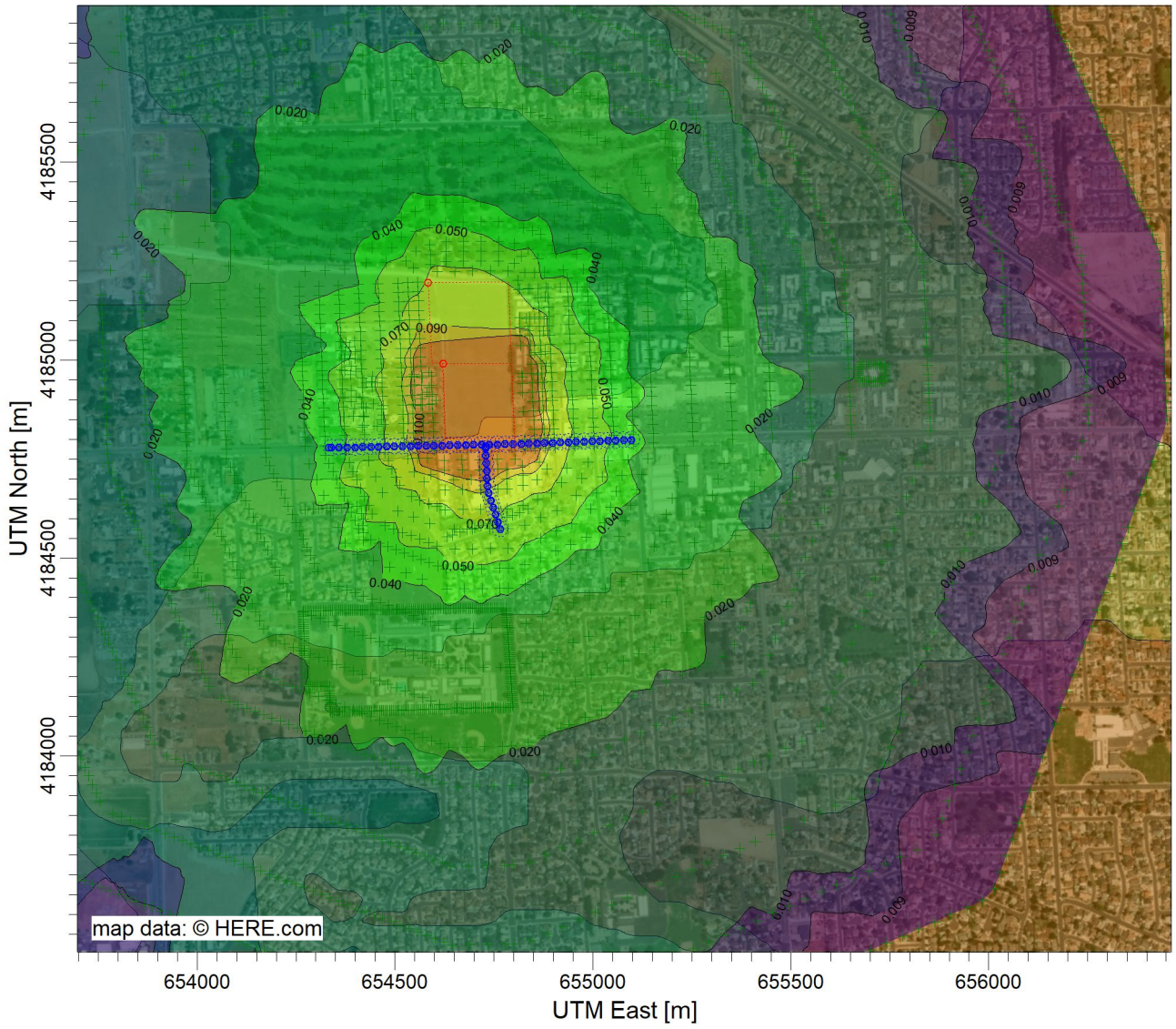
Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.03043	ug/m^3	654714.28	4184748.43	8.23	0.00	8.23	1/12/2015, 9
8-HR	1ST	0.01959	ug/m^3	654714.28	4184748.43	8.23	0.00	8.23	10/17/2014, 8
ANNUAL		0.00384	ug/m^3	654821.42	4184941.55	7.92	0.00	7.92	

PM10 - Concentration - Source Group: YSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00745	ug/m^3	654373.25	4184785.81	7.92	0.00	7.92	1/23/2017, 9
8-HR	1ST	0.00555	ug/m^3	654598.08	4184794.66	7.92	0.00	7.92	12/9/2017, 8
ANNUAL		0.00148	ug/m^3	654878.67	4184778.21	8.23	0.00	8.23	

PROJECT TITLE:

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PLOT FILE OF HIGH 1ST HIGH 1-HR VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 0.161 [ug/m^3] at (654604.52, 4184898.59)

0.006 0.009 0.010 0.020 0.040 0.050 0.070 0.090 0.100 0.161

COMMENTS:	SOURCES: **4**	COMPANY NAME:	
	RECEPTORS: **3146**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:17,385 0 0.5 km	
	MAX: **0.161 ug/m^3**	DATE: **5/26/2022**	PROJECT NO.:

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Urban

Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM10

Averaging Time Options

Hours

1	2	3	4	6	8	12	24
☑	☐	☐	☐	☐	☑	☐	☐

☐ Month ☐ Period ☑ Annual

Exponential Decay

Default half-life of 4 hrs will be used

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☐ Yes ☑ No

Default Height = 0.00 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: Manteca Yosemite Residential.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: PHS2 (Phase 2 Project Source (Building construction))

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
7.62	3.00	4.93E-9		4	654593.36	4184991.88
		4.93E-9			654583.17	4185196.09
		4.93E-9			654782.39	4185196.32
		4.93E-9			654790.84	4184991.21

Line Volume Sources

Source Type: LINE VOLUME

Source: SLINE1 (Winters Dr)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	1.77E-6		654728.45	4184782.18	8.23	3.12
			654734.04	4184672.34	8.23	3.12
			654767.55	4184568.08	8.53	3.12

Source Type: LINE VOLUME

Source: YSAVE (Yosemite Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
10.00	3.58E-6		654333.76	4184778.46	7.92	3.12
			654626.05	4184784.04	7.96	3.12
			654797.33	4184787.77	8.23	3.12
			655102.66	4184798.94	8.23	3.12

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000400	654338.76	4184778.55	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000401	654358.73	4184778.94	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000402	654378.71	4184779.32	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000403	654398.69	4184779.70	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000404	654418.66	4184780.08	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000405	654438.64	4184780.46	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000406	654458.61	4184780.84	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000407	654478.59	4184781.23	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000408	654498.56	4184781.61	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000409	654518.54	4184781.99	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000410	654538.51	4184782.37	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000411	654558.49	4184782.75	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000412	654578.46	4184783.13	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000413	654598.44	4184783.52	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000414	654618.41	4184783.90	7.92	3.12	9.18E-8	10.00		9.29	1.45
	L0000415	654638.39	4184784.31	8.03	3.12	9.18E-8	10.00		9.29	1.45
	L0000416	654658.36	4184784.75	8.13	3.12	9.18E-8	10.00		9.29	1.45
	L0000417	654678.34	4184785.18	8.13	3.12	9.18E-8	10.00		9.29	1.45
	L0000418	654698.31	4184785.61	8.13	3.12	9.18E-8	10.00		9.29	1.45
	L0000419	654718.28	4184786.05	8.14	3.12	9.18E-8	10.00		9.29	1.45
	L0000420	654738.26	4184786.48	8.21	3.12	9.18E-8	10.00		9.29	1.45
	L0000421	654758.23	4184786.92	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000422	654778.21	4184787.35	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000423	654798.18	4184787.80	8.23	3.12	9.18E-8	10.00		9.29	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
YSAVE	L0000424	654818.15	4184788.53	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000425	654838.11	4184789.26	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000426	654858.08	4184789.99	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000427	654878.04	4184790.72	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000428	654898.01	4184791.45	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000429	654917.97	4184792.18	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000430	654937.94	4184792.91	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000431	654957.90	4184793.64	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000432	654977.87	4184794.37	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000433	654997.84	4184795.10	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000434	655017.80	4184795.83	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000435	655037.77	4184796.56	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000436	655057.73	4184797.29	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000437	655077.70	4184798.02	8.23	3.12	9.18E-8	10.00		9.29	1.45
	L0000438	655097.66	4184798.75	8.23	3.12	9.18E-8	10.00		9.29	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000439	654728.70	4184777.19	8.22	3.12	1.47E-7	10.00		8.86	1.45
	L0000440	654729.67	4184758.17	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000441	654730.64	4184739.15	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000442	654731.61	4184720.13	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000443	654732.57	4184701.11	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000444	654733.54	4184682.09	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000445	654736.88	4184663.50	8.23	3.12	1.47E-7	10.00		8.86	1.45
	L0000446	654742.70	4184645.37	8.33	3.12	1.47E-7	10.00		8.86	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SLINE1	L0000447	654748.53	4184627.24	8.52	3.12	1.47E-7	10.00		8.86	1.45
	L0000448	654754.36	4184609.10	8.53	3.12	1.47E-7	10.00		8.86	1.45
	L0000449	654760.19	4184590.97	8.53	3.12	1.47E-7	10.00		8.86	1.45
	L0000450	654766.02	4184572.84	8.53	3.12	1.47E-7	10.00		8.86	1.45

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: Stockton_2013-2017.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: Stockton_2013-2017.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 18.00 [ft]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2013			OAKLAND/WSO AP
Upper Air		2013			

Data Period

Data Period to Process

Start Date: 1/1/2013 Start Hour: 1 End Date: 12/31/2017 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Results Summary

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.13151	ug/m^3	654559.10	4185149.24	7.62	0.00	7.62	12/26/2013, 9
8-HR	1ST	0.09342	ug/m^3	654561.90	4185078.12	7.62	0.00	7.62	11/4/2014, 8
ANNUAL		0.01913	ug/m^3	654816.20	4185059.79	7.78	0.00	7.78	

PM10 - Concentration - Source Group: PHS2

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.13142	ug/m^3	654559.10	4185149.24	7.62	0.00	7.62	12/26/2013, 9
8-HR	1ST	0.09333	ug/m^3	654561.90	4185078.12	7.62	0.00	7.62	11/4/2014, 8
ANNUAL		0.01910	ug/m^3	654816.20	4185059.79	7.78	0.00	7.78	

PM10 - Concentration - Source Group: SLINE1

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00228	ug/m^3	654761.28	4184624.19	8.53	0.00	8.53	2/19/2015, 17
8-HR	1ST	0.00129	ug/m^3	654715.52	4184673.44	8.23	0.00	8.23	12/20/2014, 24
ANNUAL		0.00048	ug/m^3	654760.45	4184674.18	8.29	0.00	8.29	

Results Summary

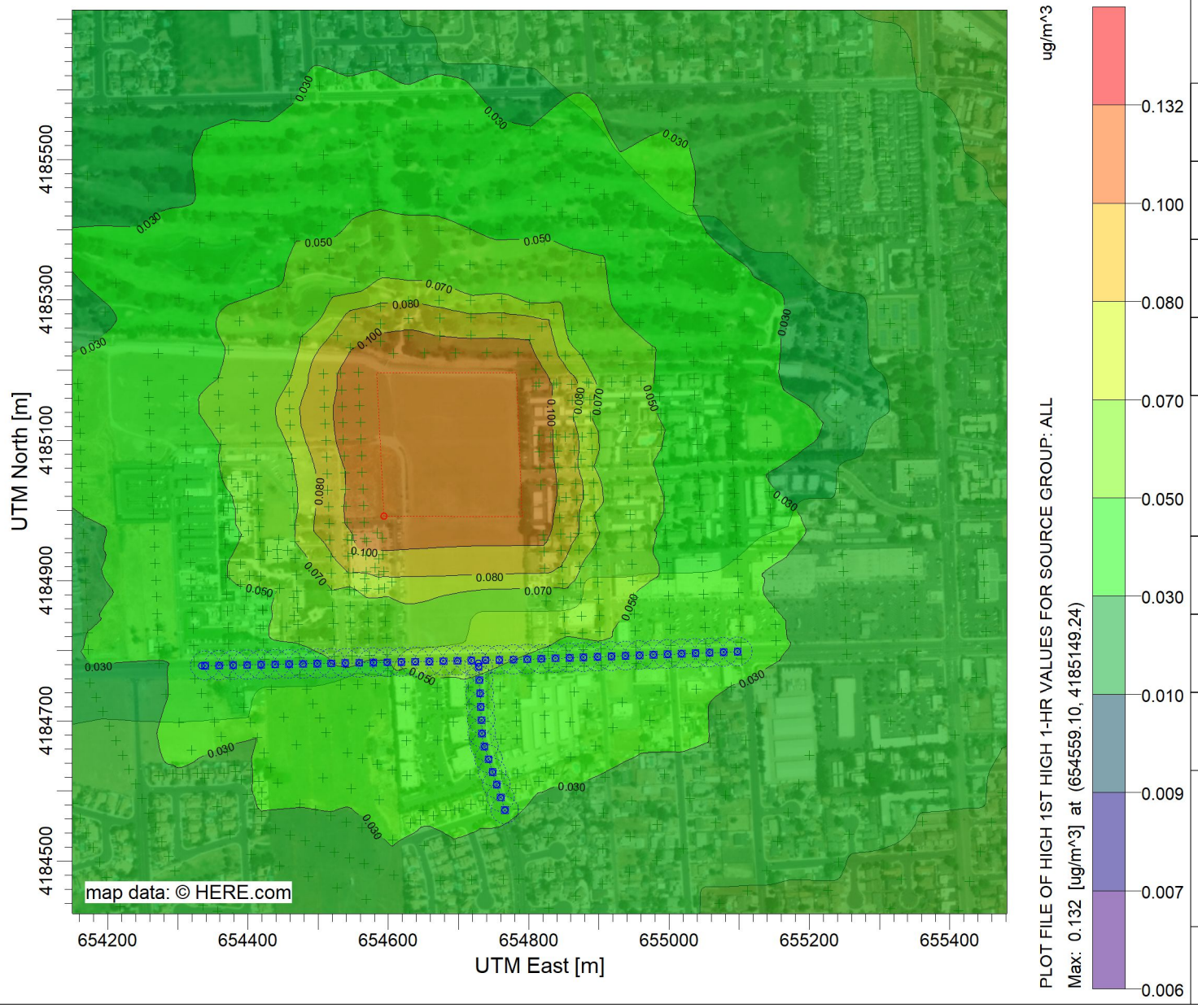
C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R

PM10 - Concentration - Source Group: YSAVE

Averaging Period	Rank	Peak	Units	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
1-HR	1ST	0.00174	ug/m^3	654373.25	4184785.81	7.92	0.00	7.92	1/23/2017, 9
8-HR	1ST	0.00130	ug/m^3	654598.08	4184794.66	7.92	0.00	7.92	12/9/2017, 8
ANNUAL		0.00035	ug/m^3	654878.67	4184778.21	8.23	0.00	8.23	

PROJECT TITLE:

C:\Lakes\AERMOD View\Manteca Yosemite Residential\Manteca Yosemite R



COMMENTS:

SOURCES:

3

RECEPTORS:

3146

OUTPUT TYPE:

Concentration

MAX:

0.132 ug/m^3

COMPANY NAME:

MODELER:

DATE:

5/26/2022

SCALE: 1:8,772

0 0.2 km

PROJECT NO.:

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Appendix B:
Biological Resources Assessment

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B.1 - Biological Resources Analysis–Residential Project

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BIOLOGICAL RESOURCES ANALYSIS REPORT

FOR THE

PROSE - MANTECA PROPERTY

SAN JOAQUIN COUNTY, CALIFORNIA



Prepared for:

ALLIANCE RESIDENTIAL COMPANY.
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San Francisco, CA 94133

Prepared by:

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NOVEMBER 2021

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Figure 5	CNDDB Wildlife Map
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Figure 10	Habitat Map

ATTACHMENT 2 TABLES

Table 1	Plant and Wildlife Species Observed Within/Adjacent to the Survey Area
Table 2	Special-Status Species Occurring Within/Adjacent to the Survey Area

ATTACHMENT 3 SITE PHOTOGRAPHS

ATTACHMENT 4 RESOURCE AGENCY PERMITTING FLOWCHART

This report should be cited as: Olberding Environmental, Inc. November 2021. *Biological Resources Analysis Report for the Prose - Manteca Property, San Joaquin County, California*. Prepared for Alliance Residential Company.

SUMMARY

On October 28, 2021, Olberding Environmental, Inc. conducted a field reconnaissance survey of the Prose – Manteca Property (Property) for the purpose of identifying sensitive plant and wildlife species, sensitive habitats, and biological constraints potentially occurring on the Property. The Property surveyed is comprised of approximately 18.16 acres located in Manteca, San Joaquin County, California.

Results of the initial reconnaissance survey indicate that the Property contains one potential wetland that might be considered jurisdictional by the U.S. Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), and/or the California Department of Fish and Wildlife (CDFW). In addition, there is a low potential for the special-status plants heartscale (*Atriplex cordulata* var. *cordulata*) and lesser saltscale (*Atriplex minuscula*) to occur on the Property. There is also the potential for special-status animals including the loggerhead shrike (*Lanius ludovicianus*), white-tailed kite (*Elanus leucurus*), and Pallid bat (*Antrozous pallidus*) to utilize the property for foraging, although there is no nesting or roosting habitat on the Property.

Prior to completing the site survey for this report, site maps, topographic maps, and aerial photographs of the Property were obtained from several sources and reviewed. This information was used in association with the site visit to determine that a potential wetland feature consisting of an artificial detention basin is located near the northwest boundary of the Property (Attachment 3, photo 7). A culvert empties into the basin at the south end, and there is not outlet or spillway for the basin. During the October 28 survey, there was only evidence of ponding water and hydrophytic vegetation at the very south end of the basin near the culvert, despite the survey being conducted following a large storm event. Additionally, historic aerial imagery on Google Earth indicates that there is no evidence of the detention basin filling since its construction approximately 20 years ago. The area is fenced off with an 8’ tall chain-link fence, so a more detailed assessment of the vegetation, soils, and hydrology was not possible at the time of the October 2021 survey.

There is a relic agricultural ditch located along the west boundary of the Property (Attachment 3, photos 4, 5, and 6). The ditch originates at a water control structure along the west boundary, near the northeast corner of the Kaiser Permanente medical complex. The ditch flows north for approximately 280 feet before turning west. The ditch then flows west for approximately 170 feet before reaching the Property boundary, where the ditch has been regraded to be at the same elevation as the surrounding landscape. There is no evidence that the ditch currently conveys water, and there was no wetland vegetation observed within the ditch. As this feature was constructed in an upland habitat with the purpose of conveying irrigation water, and does not contain any wetland vegetation, it would likely not fall under any Corps, RWQCB or CDFW jurisdiction.

Additionally, there is a large drainage ditch just north of the Property (Attachment 3, photo 9), on land owned by the City of Manteca. This ditch originates underground, east of the Property, before daylighting just north of the northeast corner of the Property. The ditch flows west, along the north boundary of the Property, and empties into a larger canal system approximately 1 mile west of the Property. While the ditch is not located on the Property, it may become part of a future project if the City of Manteca decides to request to have the ditch buried.

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) database, California Natural Diversity Database (CNDDB), and California Native Plant Society (CNPS) database were queried to create a list of special-status species with the potential to occur on the Property (Attachment 2, Table 2). After the October 28, 2021 site visit, it was determined that many of these species had no potential to occur on the Property. A total of five species were determined to have a low to moderate potential of occurring on the Property and are discussed in more detail.

A total of two special-status plant species were identified to have a low potential to occur on the Property. Heartscale and lesser saltscale both have a low potential to occur on the Property. Both species are found among wetlands with sandy soils, and as such, may grow within the detention basin located on the Property. Surveys would need to be conducted during the plants blooming period (May – October) to determine presence/absence of these species.

A total of two special-status bird species were identified to have a low to moderate potential to occur on the Property. The loggerhead shrike and white-tailed kite both have a potential to occur on the Property. Both species forage among open grassland habitats, as is found throughout the Property. However, there is no nesting habitat for either species found on the Property (riparian shrubs and dense oak canopy, respectively), or immediately surrounding the Property. As such no further action for these species will need to be taken.

No sign of bat use was observed on the Property during the October 2021 survey; however, based on habitat suitability, it was determined that bats have a low potential to utilize the site in a foraging capacity. These bat species include the California species of special concern, pallid bat. As there is no potential roosting habitat on the Property, no further action needs to be taken for this species.

1.0 INTRODUCTION

Olberding Environmental, Inc. has conducted a biological resources analysis (biological constraints assessment) of the Prose – Manteca Property, located in Manteca, San Joaquin County, California. This Biological Resources Analysis included a review of pertinent literature on relevant background information and habitat characteristics of the site. Our review included researching existing information in the CNDDB maintained by the CDFW and the CNPS *Inventory of Rare and Endangered Vascular Plants of California*. Also included was a review of

information related to species of plants and animals that could potentially utilize the described habitats identified on and immediately surrounding the Property. To assist in the assessment, a field reconnaissance investigation of the Property was conducted on October 28, 2021. This report documents the methods, results, and conclusions for the reconnaissance-level survey associated with the biological resources analysis for the Property.

2.0 LOCATION

The Property is located within the city limits of Manteca, approximately 1 mile north of State Highway 120, approximately 2.7 miles west of State Highway 99, and 3 miles east of Interstate 5 (I-5). The Property is bordered by West Yosemite Avenue on the south, commercial and residential property on the east, the Manteca Park Golf Course on the north, and the Kaiser Permanente medical complex on the west. Attachment 1, Figure 1 depicts the regional location of the Property in San Joaquin County, and Attachment 1, Figure 2 illustrates the vicinity of the Property in relationship to the City of Manteca. Attachment 1, Figure 3 identifies the location of the Property on the USGS 7.5 Quadrangle Map for Manteca. An aerial photograph of the Property has been included as Attachment 1, Figure 4.

Access to the Property is provided from I-5. From Sacramento take I-5 south until exit 462 for Louise Avenue and turn left (east) onto East Louise Avenue. After approximately 1.5 miles turn right (south) onto McKinley Avenue. Travel for 1 mile and then turn left (east) onto West Yosemite Avenue. The Property is approximately 1.5 miles on the left (north) side of the road.

3.0 PROPERTY DESCRIPTION

The Property encompasses approximately 18.2 acres in a vertical, roughly rectangle shape. The property supports two habitat types, ruderal/disturbed annual grassland, and potential wetland (Attachment 1, Figure 10). The property was historically used for dryland agriculture but has remained fallow for several years. During the October survey, most of the Property was unvegetated due to disking. However, some vegetation was present and included crabgrass (*Digitaria sanguinalis*), ripgut brome (*Bromus diandrus*), black mustard (*Brassica nigra*), with small amounts of other grasses and herbaceous species. A complete list of species observed is included in Attachment 2, Table 1.

The topography of the Property is extremely flat with elevation between 22 and 28 feet above sea level. There area several relic, isolated water structures bisecting the Property from east to west, and a water detention basin and relic irrigation ditch are located along the west Property boundary.

4.0 REGULATORY SETTING

4.1 Federal Regulatory Setting

4.1.1 Plants and Wildlife

The federal Endangered Species Act (ESA) of 1973 (16 USC 1531 et seq., as amended) prohibits federal agencies from authorizing, permitting, or funding any action that would result in biological jeopardy to a plant or animal species listed as Threatened or Endangered under the Act. Listed species are taxa for which proposed and final rules have been published in the Federal Register (USFWS 2021a). If a proposed project may jeopardize listed species, Section 7 of the ESA requires consideration of those species through formal consultations with the USFWS. Federal Proposed species (USFWS 2021b) are species for which a proposed listing as Threatened or Endangered under ESA has been published in the Federal Register. If a proposed project may jeopardize proposed species, Section 7 of the ESA affords consideration of those species through informal conferences with USFWS. The USFWS defines federal Candidate species as "those taxa for which we have on file sufficient information on biological vulnerability and threats to support issuance of a proposed rule to list, but issuance of the proposed rule is precluded by other higher priority listing actions" (USFWS 2021b). Federal Candidate species are not afforded formal protection, although USFWS encourages other federal agencies to give consideration to Candidate species in environmental planning.

4.1.2 Wetlands/Waters

On January 23, 2020, the EPA and the Corps enacted the Navigable Waters Protection Rule (NWPR) to redefine "waters of the United States" to include four categories. However, the EPA and Corps are in receipt of the U.S. District Court for the District of Arizona's August 30, 2021, order vacating and remanding the NWPR in the case of *Pascua Yaqui Tribe v. U.S. Environmental Protection Agency*. In light of this order, the agencies have halted implementation of the NWPR and are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice. The landward extent was defined following the definitions provided in the Corps of Engineers regulations [40 CFR §230.3]:

(a) *Jurisdictional waters.* The Clean Water Act defines "waters of the United States" as:

(1) All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide,

(2) All interstate waters including interstate wetlands,

(3) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows,

playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters,

(4) Which are or could be used by interstate or foreign travelers for recreational or other purposes, or

(5) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce, or

(6) Which are used or could be used for industrial purposes by industries in interstate commerce,

(7) All impoundments of waters otherwise defined as waters of the United States under this definition,

(8) Tributaries of waters identified in paragraphs (s)(1) through (4) of this section,

(9) The territorial sea,

(10) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

(b) *Non-jurisdictional waters*. The following are not "waters of the United States":

(1) Waters or water features that are not identified in (a)(1) through (4) above,

(2) Groundwater, including groundwater drainage through subsurface drainage systems,

(3) Ephemeral features, including ephemeral streams, swales, gullies, rills, and pools,

(4) Diffuse stormwater run-off and direction sheet flow over upland,

(5) Ditches that are not territorial seas or traditional navigable waters, or tributaries, and those portions constructed in adjacent wetlands that do not satisfy the conditions of adjacent wetlands,

(6) Prior converted cropland,

(7) Artificially irrigated areas, including fields flooded for agricultural production, that would revert to upland should application of irrigation water to that area cease,

(8) Artificial lakes and ponds, including water storage reservoirs and farm, irrigation, stock watering, and clog cleaning ponds, constructed of excavated in upland or in non-jurisdictional waters, so long as those artificial lakes and ponds are not impoundments of jurisdictional waters that meet the conditions of lakes and ponds, and impoundments of jurisdictional waters,

(9) Water-filled depressions constructed or excavated in upland or in non-jurisdictional waters incidental to mining or construction activity, and pits excavated in upland or in non-jurisdictional waters for the purpose of obtaining fill, sand, or gravel,

(10) Stormwater control features constructed of excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or store stormwater run-off,

(11) Groundwater recharge, water reuse, and wastewater recycling structures, including detention, retention, and infiltrations basins and ponds, constructed, or excavated in upland or in non-jurisdictional waters, and

(12) Waste treatment systems.

(c) *Definitions.* In this section, the following definitions apply:

(1) *Adjacent wetlands.* Wetlands that (i) abut, meaning to touch at least at one point or side of territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters; (ii) are inundated by flooding from territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters in a typical year; (iii) are physically separated from a water defined territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters only by a natural berm, bank, dune, or similar natural feature; or (iv) are physically separated from territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters only by an artificial dike, barrier, or similar artificial structure so long as that structure allows for a direct hydrologic surface connection between the wetlands and territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters in a typical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature.

(2) *Ditch.* A constructed or excavated channel used to convey water.

(3) *Ephemeral.* Surface water flowing or pooling only in direct response to precipitation (e.g., rain or snow fall).

(4) *High tide line.* The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along the shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings of characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide.

(5) *Intermittent.* Surface water flowing continuously during certain times of the year and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated or when snowpack melts).

(6) *Lakes and ponds, and impoundments of jurisdictional waters.* Standing bodies of open water that contribute surface water flow to territorial seas or traditional navigable waters in a typical year either directly or through one or tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands. A lake, pond, or impoundment of a jurisdictional water does not lose its jurisdictional status if it contributes to surface water flow to a downstream jurisdictional water in a typical year through a channelized non-jurisdictional surface water feature, through a culvert, dike, spillway, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. A lake or pond, or impoundment of a jurisdictional waters is also jurisdictional if it is inundated by flooding from territorial seas or traditional navigable waters, tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands in a typical year.

(7) *Ordinary high-water mark.* That line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

(8) *Perennial.* Surface water flowing continuously year-round.

(9) *Prior converted cropland.* Any area that prior to December 23, 1985, was drained or otherwise manipulated for the purpose, or having the effect, of making production of an agricultural product possible. An area is no longer considered prior converted cropland for purposes of the CWA when the area is abandoned

and has reverted to wetlands, as defined in paragraph (c)(16) of this section. Abandonment occurs when prior converted cropland is not used for, or in support of, agricultural purposes at least one in the immediately preceding five years.

(10) *Snowpack.* Layers of snow that accumulate over extended periods of time in certain geographic regions or at high elevation.

(11) *Tidal waters and waters subject to the ebb and flow of the tide.* Those waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters and waters subject to the ebb and flow of the tide end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects.

(12) *Tributary.* A river, stream, or similar naturally occurring surface water channel that contributes surface water flow to the territorial seas or traditional navigable waters in a typical year either directly or through one of more tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands. A tributary must be perennial or intermittent in a typical year.

(13) *Typical year.* When precipitation and other climatic variables are within the normal periodic range (e.g., seasonally, annually) for the geographic area of the applicable aquatic resource based on a rolling thirty-year period.

(14) *Upland.* Any land area that under normal circumstances does not satisfy all three wetland factors (i.e., hydrology, hydrophytic vegetation, hydric soils) identified in paragraph (c)(16) of this section, and does not lie below the ordinary high-water mark or the high tide line of a jurisdictional water.

(15) *Waste treatment system.* Includes all components, including lagoons and treatment ponds (such as settling or cooling ponds), designed to either convey or retain, concentrate, settle, reduce, or remove pollutants, either actively or passively, from wastewater prior to discharge (or eliminating any such discharge).

(16) *Wetlands.* Areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

4.1.3 Migratory Bird Treaty Act

Raptors are migratory bird species protected by international treaty under the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR. Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Sections 3503, 3503.5, and 3800 of the California Fish and Game Code prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that Property-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle (generally February 1 – September 1, annually). Disturbance that causes nest abandonment and/or loss of reproductive effort (e.g., killing or abandonment of eggs or young) or the loss of habitat upon which the birds depend, is considered "taking" and is potentially punishable by fines and/or imprisonment. Such taking would also violate federal law protecting migratory birds (e.g., MBTA).

4.1.4 Federal Bald and Golden Eagle Protection Act

In addition to protection under the MBTA, both the bald eagle and the golden eagle are also protected by the Bald and Golden Eagle Protection Act of 1940 (16 U.S.C. 668-668c). The Bald and Golden Eagle Protection Act, and amended several times since being enacted in 1940, prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald or golden eagles, including their parts, nests, or eggs (USFWS 2007). The Act provides criminal penalties for persons who "take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any bald eagle ... [or any golden eagle], alive or dead, or any part, nest, or egg thereof." The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb" (USFWS 2007).

For purposes of these guidelines, "disturb" means: "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to an eagle, 2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior" (USFWS 2007).

In addition to immediate impacts, this definition also covers impacts that result from human-induced alterations initiated around a previously used nest site during a time when eagles are not present, if, upon the eagle's return, such alterations agitate or bother an eagle to a degree that interferes with or interrupts normal breeding, feeding, or sheltering habits, and causes injury, death or nest abandonment (USFWS 2007).

4.2 State Regulatory Setting

4.2.1 Plants and Wildlife

Property permitting and approval requires compliance with California Environmental Quality Act (CEQA), the 1984 California Endangered Species Act (CESA), and the 1977 Native Plant Protection Act (NPPA). The CESA and NPPA authorize the California Fish and Game Commission to designate Endangered, Threatened and Rare species and to regulate the taking of these species (§§2050-2098, Fish & Game Code). The California Code of Regulations (Title 14, §670.5) lists animal species considered Endangered or Threatened by the State.

The Natural Heritage Division of the CDFW administers the state rare species program. The CDFW maintains lists of designated Endangered, Threatened, and Rare plant and animal species (CDFW 2021b and 2021c). Listed species either were designated under the NPPA or designated by the Fish and Game Commission. In addition to recognizing three levels of endangerment, the CDFW can afford interim protection to candidate species while they are being reviewed by the Fish and Game Commission.

The CDFW also maintains a list of animal species of special concern (CDFW 2021c), most of which are species whose breeding populations in California may face extirpation. Although these species have no legal status, the CDFW recommends considering them during analysis of proposed property impacts to protect declining populations and avoid the need to list them as endangered in the future.

Under provisions of §15380(d) of the CEQA Guidelines, the CEQA lead agency and CDFW, in making a determination of significance, must treat non-listed plant and animal species as equivalent to listed species if such species satisfy the minimum biological criteria for listing. In general, the CDFW considers plant species on List 1A (Plants Presumed Extinct in California), List 1B (Plants Rare, Threatened, or Endangered in California and elsewhere), or List 2 (Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere) of the CNPS *Inventory of Rare and Endangered Vascular Plants of California* (Skinner and Pavlik 1994) as qualifying for legal protection under §15380(d). Species on CNPS Lists 3 or 4 may, but generally do not, qualify for protection under this provision.

Sensitive habitats include riparian corridors, wetlands, habitats for legally protected species and CDFW Species of Special Concern, areas of high biological diversity, areas providing important wildlife habitat, and unusual or regionally restricted habitat types. Habitat types considered sensitive include those listed on the CNDDB working list of “high priority” habitats (i.e., those habitats that are rare or endangered within the borders of California) (Holland 1986).

4.2.2 Wetlands/Waters

The RWQCB regulates activities in wetlands and other waters through §401 of the Clean Water Act. Section 401 requires a state water quality certification for properties subject to 404 regulations. Requirements of the certification include mitigation for loss of wetland habitat. In the San Francisco Bay region, the RWQCB may identify additional wetland mitigation beyond the mitigation required by the Corps. California Fish and Game Code §§1600-1607 require the CDFW be notified of any activity that could affect the bank or bed of any stream that has value to fish and wildlife. Upon notification, the CDFW has the discretion to execute a Streambed Alteration Agreement. The CDFW defines a stream as follows:

> *"... a body of water that flows at least periodically...through a bed or channel having banks and supporting fish and other aquatic life. This includes watercourses having a subsurface flow that supports or has supported riparian vegetation."*
>
> (Source: Streambed Alteration Program, California Department of Fish and Wildlife, 2016).

In practice, CDFW authority is extended to any "blue line" stream shown on a USGS topographic map, as well as unmapped channels with a definable bank and bed. Wetlands, as defined by the Corps, need not be present for CDFW to exert authority.

4.2.3 California Environmental Quality Act

According to Appendix G of the CEQA (CEQA 2021) Guidelines, a proposed project would have a significant impact on biological resources if it would:

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 CDFW and USFWS?

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 CDFW or USFWS?

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

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

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

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

4.3 Local Regulatory Setting

4.3.1 San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

In November of 2000, San Joaquin County implemented the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) (SJCOG 2000). The plan was developed to provide a strategy for balancing the protection of Open Space and wildlife with the protection of local landowners and agricultural practices. The SJMSCP, 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 SJMSCP. Species that are covered by the SJMSCP that have the potential to occur within the Property include VELB, Swainson's hawk, burrowing owl, and the western mastiff bat.

5.0 METHODS OF ANALYSIS FOR GENERAL BIOLOGICAL RESOURCES

A special-status plant and wildlife species database search and review was conducted using the CNDDB and other sources. An additional search was conducted for special-status plants using CNPS *Inventory* on-line. Special-status species reports were accessed by searching the CNDDB database for the Manteca, Avena, Peters, Stockton West, Stockton East, Salida, Vernalis, and Ripon USGS 7.5-minute quadrangles which surround the Property, and by examining those species that have been identified in the vicinity of the Property. These quadrangles will be henceforth noted as surrounding quads. The database report identified special-status species known to occur in the region or those that have the potential to occur in the vicinity of the Property. The CNDDB report was used to focus special-status species analysis of the site prior to the reconnaissance surveys.

An Olberding Environmental biologist conducted a reconnaissance-level survey of the Property on October 28, 2021. The survey consisted of walking throughout the Property and evaluating the site and adjacent lands for potential biological resources. Existing conditions, observed plants and wildlife, adjacent land use, soils, and potential biological resource constraints were recorded during the visit. Plant and wildlife species observed within and adjacent to the Property during the reconnaissance survey are listed in Attachment 2, Table 1. Site photographs are provided in Attachment 3 of this document. Attachment 1, Figure 9 shows where each site photo was taken.

The objectives of the field survey were to determine the potential presence or absence of special-status species habitat listed in the CNDDB database report and to identify any wetland areas that could be potentially regulated by the Corps, RWQCB, and/or CDFW (CDFW 2021a). In addition, the Olberding Environmental biologist looked for other potential sensitive species or habitats that may not have been obvious from background database reports or research. Surveys conducted after the growing season or conducted outside of the specific flowering period for a special-status plant cannot conclusively determine the presence or absence of such plant species; therefore, site conditions and habitat type were used to determine potential for occurrence. When suitable habitat was observed to support a special-status plant or animal species, it was noted in the discussion for that particular species. Regulatory agencies evaluate the possibility of occurrence based on habitats observed on-site and the degree of connectivity with other special-status animal habitats in the vicinity of the Property. These factors are discussed in each special-status plant or animal section. Potential for occurrence of each special-status or protected plant and animal species was evaluated using the following criteria.

- **Present**: The species has been recorded by CNDDB or other literature as occurring on the Property and/or was observed on the Property during the reconnaissance survey or protocol surveys.

- **May Occur**: The species has been recorded by CNDDB or other literature as occurring within five miles of the Property, and/or was observed within five miles of the Property, and/or suitable habitat for the species is present on the Property or its immediate vicinity.

- **Not Likely to Occur**: The species has historically occurred on or within five miles of the Property but has no current records. The species occurs within five miles of the Property, but only marginally suitable habitat conditions are present. The Property is likely to be used only as incidental foraging habitat or as an occasional migratory corridor.

- **Presumed Absent**: The species will not occur on the Property due to the absence of suitable habitat conditions, and/or the lack of current occurrences. Alternatively, if directed or protocol-level surveys were done during the proper occurrence period and the species was not found, it is presumed absent.

Sources consulted for agency status information include USFWS (2021a) for federally listed species and CDFW (2021c) for State of California listed species. Based on information from the above sources, Olberding Environmental developed a target list of special-status plants and animals with the potential to occur within or in the vicinity of the Property (Attachment 2, Table 2).

5.1 Soils Evaluation

The soils present on a property may determine if habitat on the site is suitable for certain special-status plants and animals. The host plants of some special-status invertebrates may also require specific soil conditions. In the absence of suitable soil conditions, special-status plants or animals requiring those conditions would be presumed absent. Information regarding soil characteristics for the Property was obtained by viewing the Natural Resources Conservation Service (NRCS) Web Soil Survey report for the Property (NRCS 2021).

5.2 Plant Survey Methods

The purposes of the botanical surveys were (1) to characterize the habitat types (plant communities) of the study area; (2) to determine whether any suitable habitat for any special-status plant species occurs within the study area; and (3) to determine whether any sensitive habitat types (wetlands) occur within the study area. Site conditions and plant habitat surveys are important tools in determining the potential occurrence of plants not recorded during surveys (e.g., special-status plants) because presence cannot conclusively be determined if field surveys are conducted after the growing season or conducted outside a specific flowering period.

5.2.1 Review of Literature and Data Sources

The biologist conducted focused surveys of literature and special-status species databases in order to identify special-status plant species and sensitive habitat types with potential to occur in the study area. Sources reviewed included the CNDDB occurrence records (CDFW 2021a) and CNPS *Inventory* (CNPS 2021) for the surrounding quads; and standard flora (The Jepson Manual 2012). From the above sources, a list of special-status plant species with potential to occur in the Property vicinity was developed (Attachment 2, Table 2).

5.2.2 Field Surveys

A biologist from Olberding Environmental conducted a reconnaissance-level survey to determine habitat types and the potential for special-status plants based on the observed habitat types. All vascular plant species that were identifiable at the time of the survey were recorded and identified using keys and descriptions in The Jepson Manual (2012).

The habitat types occurring on the Property were characterized according to pre-established categories. In classifying the habitat types on the site, the generalized plant community classification schemes of *A Manual of California Vegetation* (Sawyer, Keeler-Wolf, and Evens 2009) were consulted. The final classification and characterization of the habitat types of the study area were based on field observations.

5.3 Wildlife Survey Methods

The purposes of the wildlife survey were to identify special-status wildlife species and/or potential special-status wildlife habitats within the study area.

5.3.1 Review of Literature and Data Sources

A focused review of literature and data sources was conducted in order to determine which special-status wildlife species had potential to occur in the vicinity of the Property. Current agency status information was obtained from USFWS (2021a) for species listed as Threatened or Endangered, as well as Proposed and Candidate species for listing, under the federal ESA; and from CDFW (2021b, 2021c) for species listed as Threatened or Endangered by the state of California under the CESA or listed as "species of special concern" by CDFW. From the above sources, a list of special-status wildlife species with potential to occur in the Property vicinity was developed (Attachment 2, Table 2).

5.3.2 Field Surveys

General Wildlife Survey – An Olberding Environmental biologist conducted a survey of species habitat within the entire study area, including visible portions of the adjacent properties. The purpose of the habitat survey was to evaluate wildlife habitats and the potential for any protected species to occur on or adjacent to the Property.

Reconnaissance-Level Raptor Survey – A reconnaissance-level raptor survey was conducted on the Property. Observation points were established on the periphery of the site to view raptor activity over a fifteen- to thirty-minute time period. This survey was conducted with the use of binoculars and notes were taken for each species occurrence. Additionally, utility poles and perch sites in the vicinity of the Property were observed. All raptor activity within and adjacent to the Property was recorded during the reconnaissance-level observation period.

Reconnaissance-Level Burrowing Owl (Athene cunicularia) Survey – A reconnaissance-level burrowing owl survey was also conducted on the Property to identify potential burrow sites or burrowing owl use of on-site habitat. The general presence and density of suitable burrow sites (e.g., rodent burrows) was evaluated for the Property.

6.0 RESULTS FOR GENERAL BIOLOGICAL RESOURCES

The search and review of the CNDDB database reports revealed the occurrence of special-status plant and wildlife species that occur in the habitats found within the Property boundaries (CDFW 2021a). The CNDDB database and background data were reviewed for the surrounding quads. Animal occurrences shown on Attachment 1, Figure 5 and plant occurrences shown on Attachment 1, Figure 6 are located within 5 miles of the Property and were reviewed for their potential to occur on the Property based on general habitat types. Results of the species review is

tabulated on Attachment 2, Table 2. Critical habitat within the surrounding quads is shown on Attachment 1, Figure 7.

6.1 Soil Evaluation Results

The NRCS (2021) reports three soil types within the Property. A map of this soil type can be found in Attachment 1, Figure 8. The soil type mapped included the following (USDA 1992):

> **Delhi-Urban land complex, 0 to 2 percent slopes** – The Delhi-Urban series consists of very deep and somewhat excessively drained soils. This soil type occurs on dunes and typically consists of 50% Delhi loamy sand and 35% Urban land that are intricately intermingled. Permeability is rapid in the Delhi soil and the available water capacity is low. Runoff is slow, and the hazard of water erosion is slight. The Urban land consists of areas covered by roads, parking lots, etc., with the soil material under the impervious surface similar to Delhi loamy sand. Its stratified layers consist of the following (colors are for dry soil unless otherwise stated):
>
> - **Ap1** – 0 to 3 inches; loamy sand, dark grayish brown when moist; single grained; loose, very friable, nonsticky and nonplastic; common fine and many very fine roots; many very fine interstitial pores; neutral; clear smooth boundary.
> - **AP2** – 3 to 8 inches; light brownish gray loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; neutral; clear smooth boundary.
> - **A** – 8 to 16 inches; grayish brown loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; slightly acid; clear wavy boundary.
> - **C1** – 16 to 26 inches; grayish brown loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastice, few fine and common medium roots; many very fine interstitial pores; slightly acid; gradual smooth boundary.
> - **C2** – 26 to 44 inches; pale brown sand, brown when moist; massive; loose, very friable, nonsticky and nonplastic; few medium roots; many very fine interstitial pores; slightly acid; gradual smooth boundary.
> - **C3** – 44 to 60 inches; [ale brown sand, brown when moist; massive; loose, very friable, nonsticky and nonplastic; few fine interstitial pores; slightly acid
>
> **Tinnin loamy coarse sand, 0 to 2 percent slopes** – The Tinnin series consists of very deep, well drained, and nearly level soil that is formed on alluvial fans. The alluvium is derived from granitic rock sources. Included in this unit are small areas of Veritas soils. Permeability is rapid and the available water capacity is low. Runoff is slow and the

hazard of water erosion is slight. Its stratified layers consist of the following (colors are for dry soil unless otherwise stated):

- **AP** – 0 to 14 inches; grayish brown loam coars sand, very dark grayish brown when moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; mildly alkaline; diffuse smooth boundary.
- **A** – 14 to 28 inches; grayish brown loamy coarse sand, very dark grayish brown when moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; neutral; diffuse wavy boundary
- **C1** – 28 to 53 inches; brown loamy coarse sand, dark brown when moist; common medium distinct light brown mottles, dark brown when moist; massive; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; slightly acid; diffuse wavy boundary.
- **C2** – 53 to 75 inches; pale brown loamy coarse sand, brown when moist; common medium distinct light brown mottles, dark brown when moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine interstitial pores; 2% rounded pebbles; neutral.

Veritas fine sandy loam, 0 to 2 percent slopes – The Veritas series consists of moderately well drained, nearly level soils on low fan terraces. The soil is deep before reaching a hardpan and formed in alluvium derived from mixed rock sources. Included in this unit are small areas of Bisgani, Grangeville, and Veritas soils. Permeability is moderately rapid and available water capacity is moderate. Depth to the water table is more than 6 feet, but water may be briefly perched above the hardpan after periods of heavy rainfall. Runoff is slow and the hazard of water erosion is slight. Its stratified layers consist of the following (colors are for dry soil unless otherwise stated):

- **AP** – 0 to 8 inches; grayish brown fine sandy loam, very dark grayish brown when moist; weak fine subangular blocky structure; hard, friable, slightly sticky and slightly plastic; few very fine roots; few very fine interstitial pores; moderately alkaline; clear smooth boundary.
- **A** – 8 to 15 inches; grayish brown fine sandy loam, very dark grayish brown when moist; weak fine subangular blocky structure; hard, friable, slightly sticky and slightly plastic; few very fine roots; few very fine and fine tubular pores; slightly effervescent; disseminate lime; moderately alkaline; gradual wavy boundary.
- **Bw** – 15 to 40 inches; pale brown fine sandy loam, brown when moist; weak coarse subangular blocky structure parting to weak fine angular blocky; hard,

friable, slightly sticky and slightly plastic; few fine roots; common fine continuous tubular pores; slightly effervescent; disseminated lime; moderately alkaline; gradual smooth boundary.

- **Bk** – 40 to 54 inches; variegated light brownish gray fine sandy loam, dark grayish brown when moist; few medium distinct dark brown mottles when moist; moderate coarse angular blocky structure parting to weak fine angular blocky; hard, friable, slightly sticky and slightly plastic; few fine roots; common fine tubular pores; slightly effervescent; common fine filaments of lime and disseminate lime; moderately alkaline; abrupt smooth boundary.
- **2Bqm** – 54 to 70 inches; variegated light gray and white, strongly cemented duripan, light brownish gray when moist; many fine prominent dark brown and yellowish-brown mottles when moist; massive; brittle; few fine tubular pores; 70 to 85% silica cementation within the matrix; slightly effervescent; disseminated lime; moderately alkaline.

6.2 Plant Survey Results

6.2.1 Floristic Inventory and Habitat Characterization

The Property only supports two habitat types, ruderal/disturbed annual grassland and potential wetland. In classifying the habitat on the Property, generalized plant community classification schemes were used (Sawyer, Keeler-Wolf, and Evens 2009). The final classification and characterization of the habitat type of the Property was based on field observations. Special-status plant species that occurred within 5 miles of the Property are shown in Attachment 1, Figure 6.

The habitat types and a description of the plant species present within the habitat types are provided below. The habitats found on the Property are mapped on Attachment 1, Figure 10. Dominant plant species are also noted. A complete list of plant species observed on the Property can be found within Attachment 2, Table 1.

Ruderal/Disturbed Annual Grassland

The Property consists almost entirely of ruderal/disturbed annual grassland. The Property was historically used for dryland agriculture; however, it has remained fallow and regularly disked for several years. Because of this, the Property was largely unvegetated (75% or more bare ground) during the October 2021 site visit. The dominant vegetation that was observed included crabgrass, ripgut brome, black mustard, with small amounts of other grasses and herbaceous species. A complete list of the plant species identified are included in Attachment 2, Table 1.

Potential Wetland

The Property contains one potential wetland located along the west boundary of the Property. There is an artificially constructed water detention basin adjacent to the Kaiser Permanente medical complex. A culvert enters the basin from the south end, and there is no outlet or overflow. At the time of the October 2021 survey much of the constructed basin consisted of ruderal and non-native annual grassland species such as crab grass, turkey mullein (*Croton setiger*), and ripgut brome. However, the portion of the basin immediately around the culvert contained some hydrophytic vegetation and evidence of ponding. Vegetation in this area consisted of sedges (*Carex* spp.), curly dock (*Rumex crispus*), and similar vegetation. The detention basin is fenced off, inhibiting plant identification. A complete list of plant species identified are included in Attachment 2, Table 1.

Special-Status Plant Species

Special-status plant species include species listed as Rare, Threatened, or Endangered by the USFWS (2021a) or by the State of California (CDFW 2021b). Federal Proposed and Candidate species (USFWS, 2021b) are also special-status species. Special-status species also include species listed on List 1A, List 1B, or List 2 of the CNPS Inventory (Skinner and Pavlik, 1994; CNPS 2021). All species in the above categories fall under state regulatory authority under the provisions of CEQA and may also fall under federal regulatory authority. Considered special-status species are species included on List 3 (Plants About Which We Need More Information—A Review List) or List 4 (Plants of Limited Distribution—A Watch List) of the CNPS *Inventory*. These species are considered to be of lower sensitivity and generally do not fall under specific state or federal regulatory authority. Specific mitigation considerations are not generally required for List 3 and List 4 species.

Attachment 2, Table 2 includes a list of special-status plants with the potential to occur within or in the immediate vicinity of the Property based on a review of the surrounding quads. The special-status plant species identified by the CNDDB as potentially occurring on the Property are known to grow only from specific habitat types. The specific habitats or "micro-climate" necessary for many of the plant species to occur are not found within the boundaries of the Property. Additionally, the Property has been disked annually for several years, inhibiting the establishment of a developed plant stratum. Because of this, the annual grassland habitat that occurs on the Property is unlikely to support any special-status plant species. However, the potential wetland habitat within the detention basin has a slight potential to support heartscale (*Atriplex cordulata* var. *cordulata*) and lesser saltscale (*Atriplex minuscula*) due to the presence of a potential wetland with sandy soils. The nearest CNDDB occurrence of heartscale (#87) is located approximately 10 miles north of the Property near Stockton. The occurrence is from 1896 and is presumed extirpated. The nearest CNDDB occurrence of lesser saltscale (#29) is

located approximately 11.6 miles south of the Property near a bridge over the San Joaquin River. The occurrence is from 2004 and is presumed extant.

Four CNDDB occurrences of special-status plants were identified within a five-mile radius of the Property (Attachment 1, Figure 6). However, it was determined that due to the regular disturbance of habitat present on the site, it is unlikely that any of these four special-status plant species will occur on the Property.

6.3 Wildlife Survey Results

6.3.1 General Wildlife Species and Habitats

A complete list of wildlife species observed within the Property can be found in Attachment 2, Table 1. Wildlife species commonly occurring within habitat types present on the Property are discussed below:

Ruderal/Disturbed Annual Grassland

Due to the heavily disturbed nature of the Property, there were a limited number of wildlife species observed during the survey. Two feral cats (*Felis catus*) were observed traversing the property, and several crows (*Corvus brachyrhynchos*) were observed flying overhead. It is likely that other "urban" mammals such as racoon (*Procyon lotor*) or striped skunk (*Mephitis mephitis*) would utilize the habitat on the Property. Additionally, bat species such as the pallid bat (*Antrozous pallidus*) may use habitat on the property for foraging. No reptiles were observed on the Property, but it is possible that common species such as the western fence lizard (*Sceloporus occidentalis*) may occur on the Property.

Potential Wetland

Due to the heavily disturbed nature of the Property, there were a limited number of wildlife species observed during the survey. The two feral cats mentioned above were observed traversing the detention basin. Besides those cats, no other animals were observed within the potential wetland area.

BIRDS

Loggerhead Shrike (*Lanius ludovicianus*). Federal Species of Special Concern, California Species of Special Concern.

The loggerhead shrike is a black and white perching bird with a black face mask that extends over the bill. A common resident and winter visitor in lowlands and foothills throughout California. It prefers open habitats with scattered shrubs, trees, posts, fences, utility lines, or other perches. It occurs only rarely in heavily urbanized areas but is often found in open

cropland. This species hunts large insects, small rodents and even small birds. Loggerhead shrikes are known for their habit of impaling their food on thorns or barb wire for future consumption. The range and habitat for the loggerhead shrike has steadily shrunk due to human development within grasslands; however, this species is often found on lands grazed by cattle that are fenced with barb wire. These birds use shrubs, dense trees, and thickets of vegetation for nesting sites.

CNDDB listed one occurrence of loggerhead shrike within five miles of the Property. Occurrence #112 is located approximately 2.4 miles west of the Property at the southern end of Lathrop. In 2016 a pair of birds were observed feeding 4 fledglings. While the location where the siting occurred has since been developed, the occurrence is presumed extant. It is unlikely that this species would nest on the Property, as there are no trees or shrubs located on the Property that would provide nesting habitat. However, foraging habitat is present throughout the Property. Given the information above the loggerhead shrike has low potential to occur in a foraging capacity only.

White-tailed Kite (*Elanus leucurus*). Federal Species of Concern, CDFW: Fully Protected.

The white-tailed kite is falcon-shaped with a long white tail. This raptor has black patches on the shoulders that are highly visible while the bird is flying or perching. White-tailed kites forage in annual grasslands, farmlands, orchards, chaparral, and at the edges of marshes and meadows. They are found nesting in trees and shrubs such as willows (*Salix sp.*), California sycamore (*Platanus racemosa*), and coast live oak (*Quercus agrifolia*) often near marshes, lakes, rivers, or ponds. This raptor often hovers while inspecting the ground below for prey. The White-tailed Kite eats mainly small mammals, as well as some birds, lizards, and insects. Annual grasslands are considered good foraging habitat for white-tailed kites, which will forage in human-impacted areas.

The nearest CNDDB occurrence of this species (#110) is located approximately 9 miles north of the Property in the City of Stockton. It is unlikely that this species would nest on the Property, as there are no large trees on or adjacent to the Property that would provide nesting habitat. Given the information above, it is unlikely that the white-tailed kite will nest on the Property, but it may be present in a foraging capacity.

MAMMALS

Special-status Bats

Bats (Order – *Chiroptera*) are the only mammals capable of "true" flight. They are nocturnal feeders and locate their prey, which consists of small to medium sized insects by echolocation. Bats consume vast amounts of insects making them very effective pest control agents. They may eat as much as their weight in insects per day. Maternity roosts comprised of only females, may

be found in buildings or mine shafts with temperatures up to 40 degrees Celsius and a high percentage of humidity to ensure rapid growth in the young. Female bats give birth to only one or two young annually and roost in small or large numbers. Males may live singly or in small groups, but scientists are still unsure of the whereabouts of most males in summer.

Special-status bats with the potential to occur on the Property are listed below:

- Pallid bat (*Antrozous pallidus*)

There are no CNDDB occurrences of this species within five miles of the Property. The nearest occurrence of pallid bat (#279) is located approximately 15 miles northeast of the Property in Farmington. Several specimens were collected in 1951. The ruderal/disturbed grassland habitat on the Property could provide foraging habitat for the species, however there are no trees, rocks, or other structures that the bats may use for roosting. Given the above information, the Pallid bat has a low potential to occur on the Property in a foraging capacity only.

6.3.2 Critical Habitat

As shown in Figure 7, the Property falls within the critical habitat unit V01 for Delta smelt (*Hypomesus transpacificus*). Critical habitat was established for this species on December 19, 1994 (Federal Register 59 No. 242, pp. 65256-65279). As there are no wetlands or waters on the Property directly connected to the waters of the Delta, there will be no impact to the designated critical habitat.

7.0 CONCLUSIONS

7.1 Wetlands/Waters

Results of the biological resource analysis survey conducted by Olberding Environmental indicate that the Property contains potential wetlands that may be considered jurisdictional by the Corps, RWQCB, and/or CDFW. There is an artificial stormwater detention basin located near the northwest boundary of the Property with a culvert that empties into the basin at the south end (Attachment 3, photo 7). During the October 28 survey there was only evidence of ponding water and hydrophytic vegetation at the very south end of the basin near the culvert, despite the survey being conducted following a large storm event. Additionally, historic aerial imagery on Google Earth indicates that there is no evidence of the detention basin filling since its construction approximately 20 years ago. The area is fenced off with an 8’ tall chain-link fence so a more detailed assessment of the vegetation, soils, and hydrology was not possible at the time of the October 2021 survey.

7.2 Special-status Plants

It was determined that due to the presence of sandy soils throughout the Property, the potential wetland area located within the detention basin may provide habitat for special-status plants, including heartscale and lesser saltscale.

7.3 Special-status Wildlife

Special-status Invertebrates – Given the vegetation that was identified on the Property, and the lack of vernal pool features, there is no potential that any special-status invertebrates would occur on the property.

Special-status Fish – Due to the lack of any permanent wetlands or waters, and the isolated nature of any potential wetlands on the Property, there is no potential that any special-status fish would occur on the Property.

Special-status Amphibians – Due to the lack of any vernal pools or deep, relatively permanent water features on the Property, there is no potential that any special-status amphibians would occur on the Property.

Special-status Reptiles – Due to the lack of any low gradient waterways, or dense leaf litter, there is no potential that any special-status reptiles would occur on the Property.

Foraging or Nesting Raptor/Passerine Species – Due to the vegetation identified on the site, the lack of mammal burrows, and the lack of any large trees or nesting habitat, there is no potential for any special-status birds to nest on the Property. While there is the potential for birds, such as loggerhead shrike and white-tailed kite to utilize the Property for foraging, there is no available nesting habitat for these species on or surrounding the Property.

Special-Status Mammals – Given the presence of suitable onsite habitat; the pallid bat has a low potential to occur on the Property in a foraging capacity. However, due to the lack of any trees or other large structures on the Property, there is no potential for any roosting habitat.

8.0 RECOMMENDATIONS

- **Corps Jurisdictional Delineation** – A Corps wetland delineation should be prepared to document the actual extent of jurisdictional features if any construction activity could result in impacts to wetlands/waters. If the wetlands/waters are deemed jurisdictional and construction activities are proposed that could impact these features, permits must be obtained prior to construction. Setbacks from the wetlands/water features may be required to protect habitat quality and to protect water quality. Permitting to allow impacts to wetlands/waters features may also require mitigation. If permitting is required,

please refer to Attachment 4, a flow-chart depicting permitting requirements for each agency.

- **Pre-Construction Plant Surveys** – Prior to any proposed project ground disturbance, botanical surveys should be conducted for heartscale and lesser saltscale during their blooming period (May – October). These surveys should be conducted by a qualified biologist who is familiar with California flora and plant identification.

- **Pre-Construction Avian Survey** – If proposed project construction-related activities would take place during the nesting season (February through August), preconstruction surveys for nesting passerine birds and raptors (birds of prey) in trees adjacent to the Property should be conducted by a competent biologist 14 days prior to the commencement of the tree removal or site grading activities.

  If any birds listed under the Migratory Bird Treaty Act are found to be nesting within the proposed project site or within the area of influence, an adequate protective buffer zone should be established by a qualified biologist to protect the nesting site. This buffer shall be a minimum of 50 feet from the project activities for passerine birds, and a minimum of 250 feet for other raptors. The distance shall be determined by a competent biologist based on the site conditions (topography, if the nest is in a line of sight of the construction and the sensitivity of the birds nesting). The nest site(s) shall be monitored by a competent biologist periodically to see if the birds are stressed by the construction activities and if the protective buffer needs to be increased. Once the young have fledged and are flying well enough to avoid project construction zones (typically by August), the project can proceed without further regard to the nest site(s).

- **Erosion Control** – Grading and excavation activities could expose soil to increased rates of erosion during construction periods. During construction, runoff from the Property could adversely surrounding habitats and cause increased particulate matter to enter the storm drain system. Implementation of appropriate mitigation measures would ensure that impacts to aquatic systems would be avoided or minimized. Mitigation measures may include best management practices (BMP's) such as hay bales, silt fencing, placement of straw mulch and hydro seeding of exposed soils after construction as identified in the Storm Water Pollution Prevention Plan (SWPPP).

9.0 LITERATURE CITED

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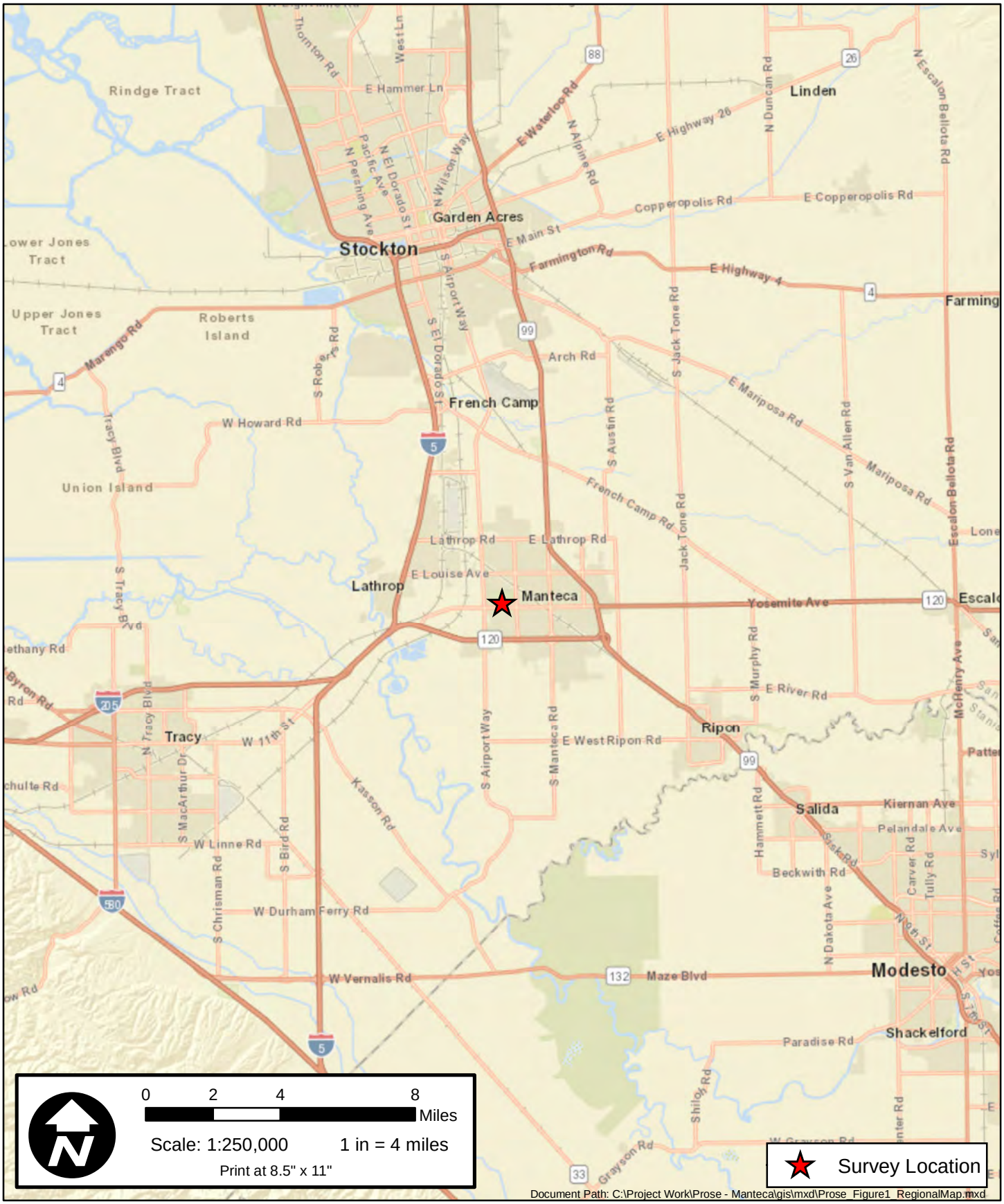
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ATTACHMENTS

ATTACHMENT 1

FIGURES

Figure 1	Regional Map
Figure 2	Vicinity Map
Figure 3	USGS Topographic Map
Figure 4	Aerial Map
Figure 5	CNDDB Wildlife Occurrences within 5 miles
Figure 6	CNDDB Plant Occurrences within 5 miles
Figure 7	USFWS Critical Habitat
Figure 8	Soils Map
Figure 9	Photo Point Map
Figure 10	Habitat Map
Figure 11	Special-Status Species Observed Map



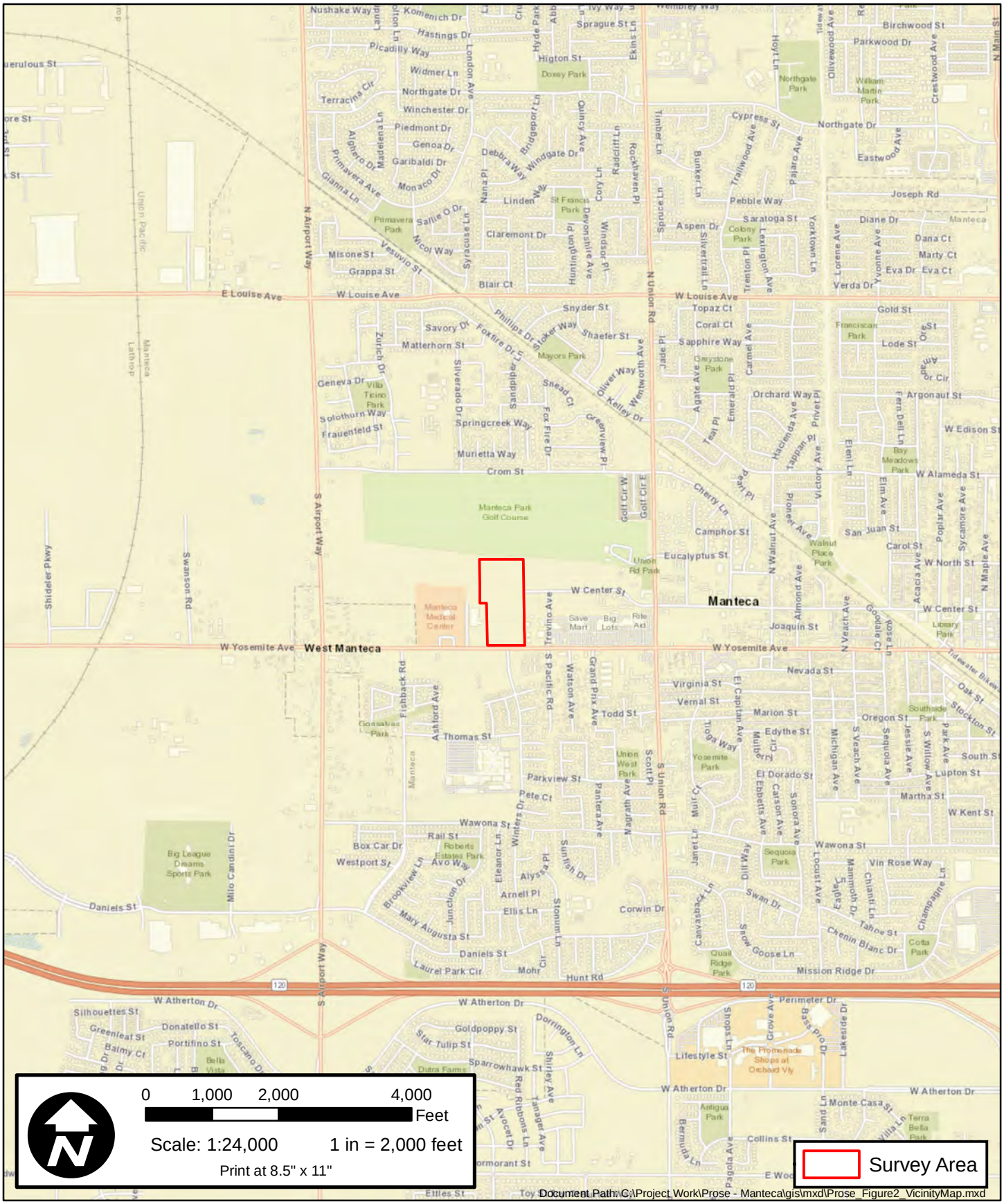
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Phone: (916) 985-1188

Figure 1: Regional Map
Prose - Manteca Property
San Joaquin County, California

Revision Date: 11/01/2021

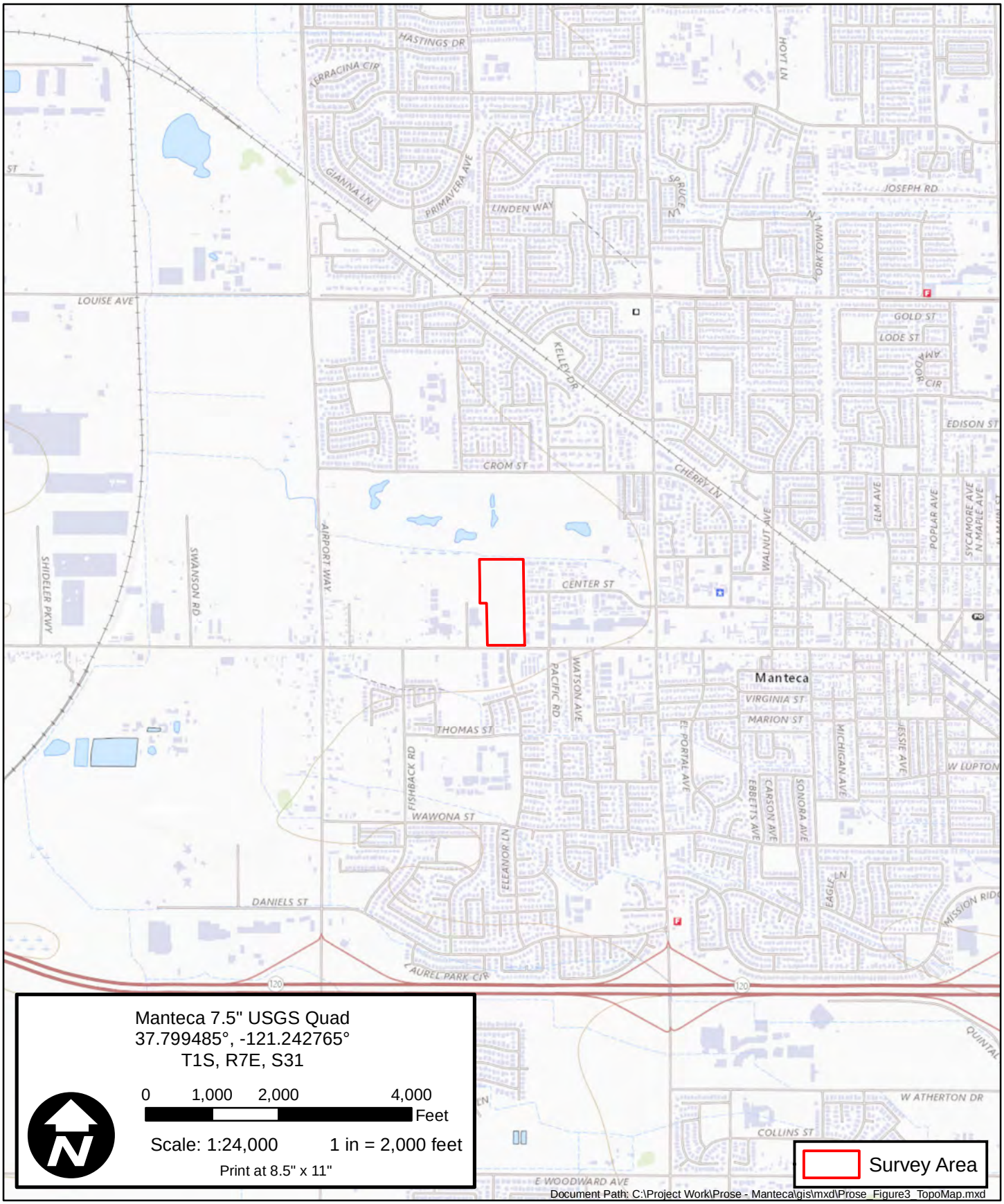


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Figure 2: Vicinity Map
Prose - Manteca Property
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Revision Date: 11/04/2021



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Figure 3: USGS Topographic Map
Prose - Manteca Property
San Joaquin County, California

Revision Date: 11/04/2021

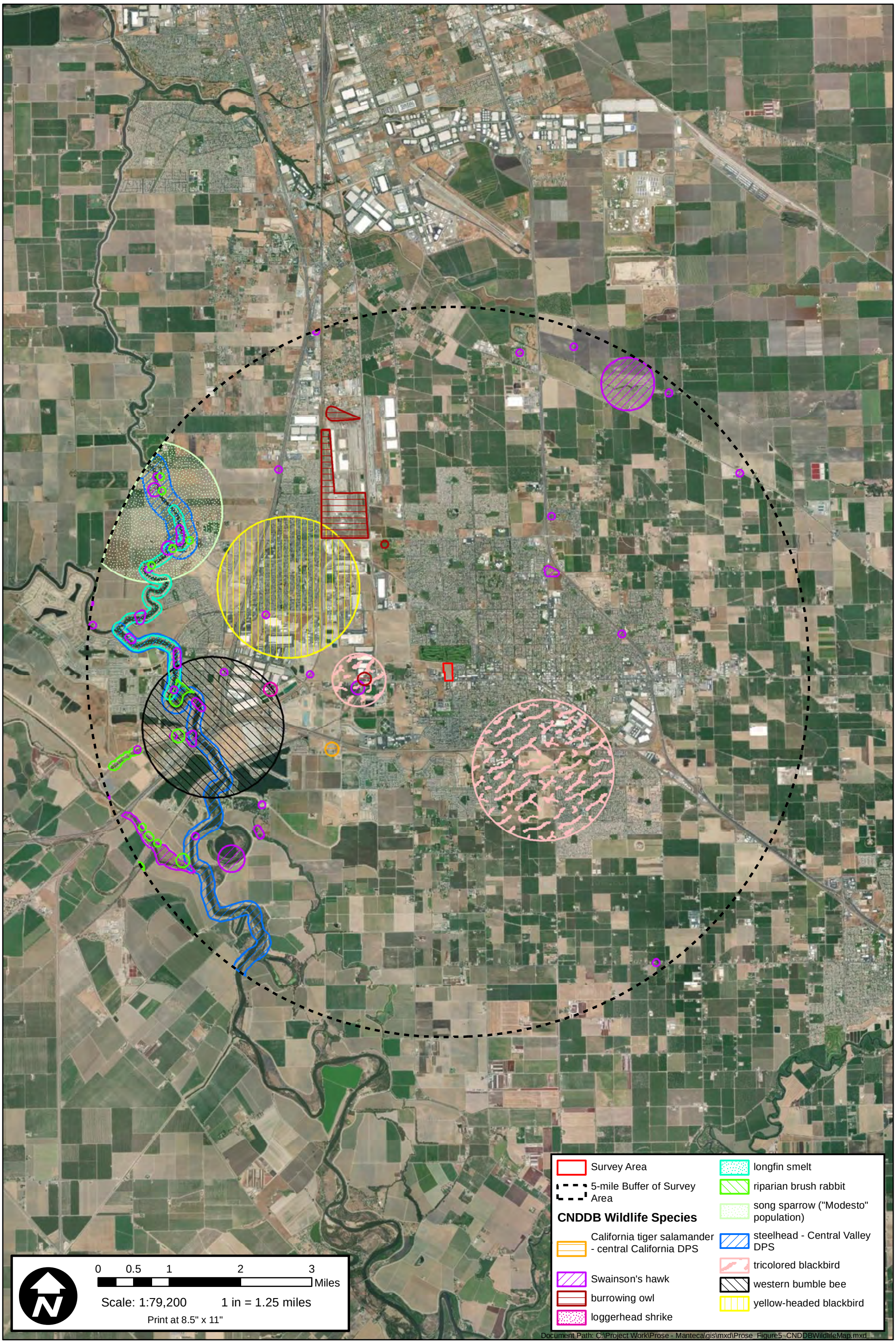


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Figure 4: Aerial Map
Prose - Manteca Property
San Joaquin County, California

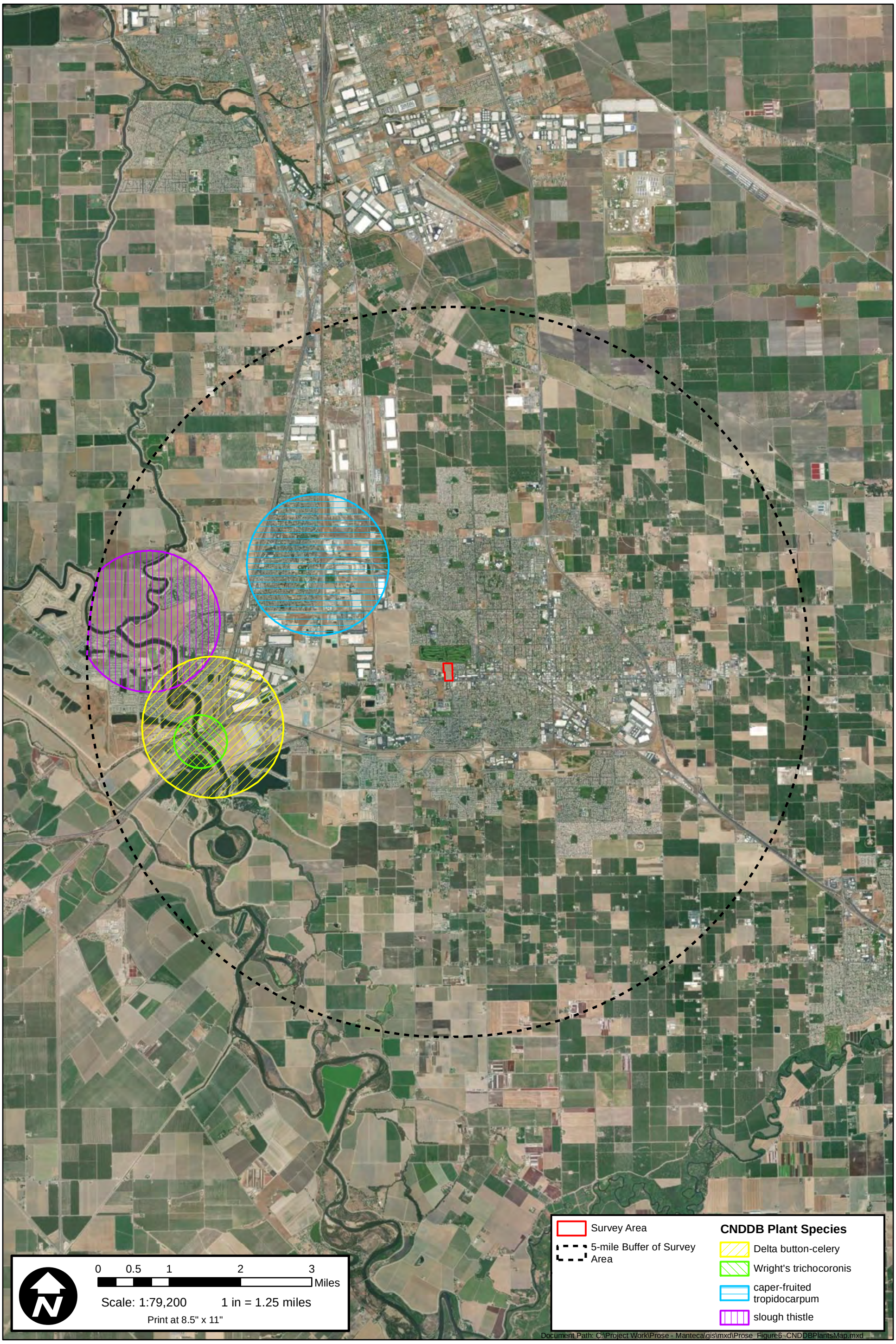
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Figure 5: CNDDB Wildlife Map
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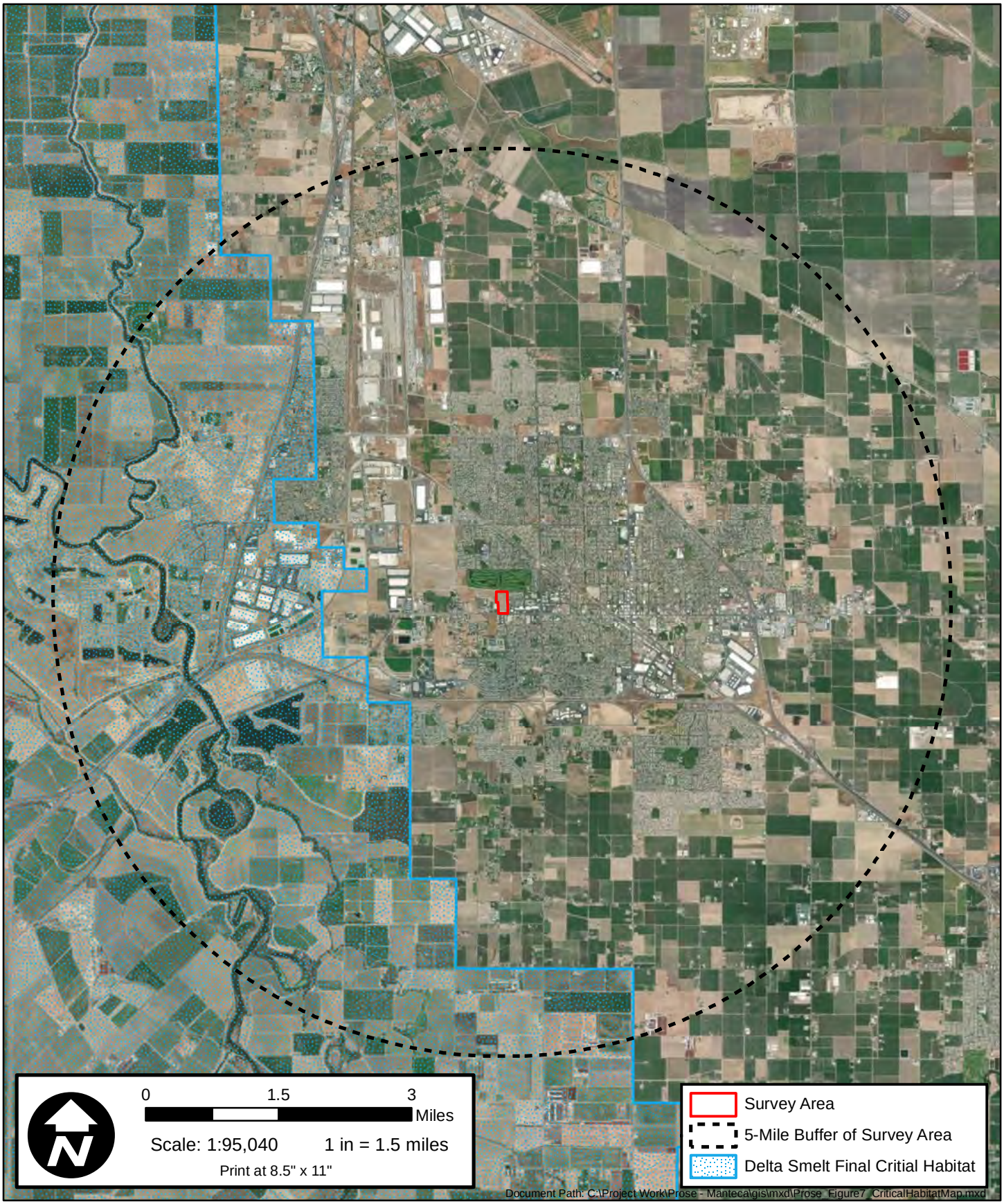
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Figure 6: CNDDB Plants Map
Prose - Manteca Property
San Joquin County, California

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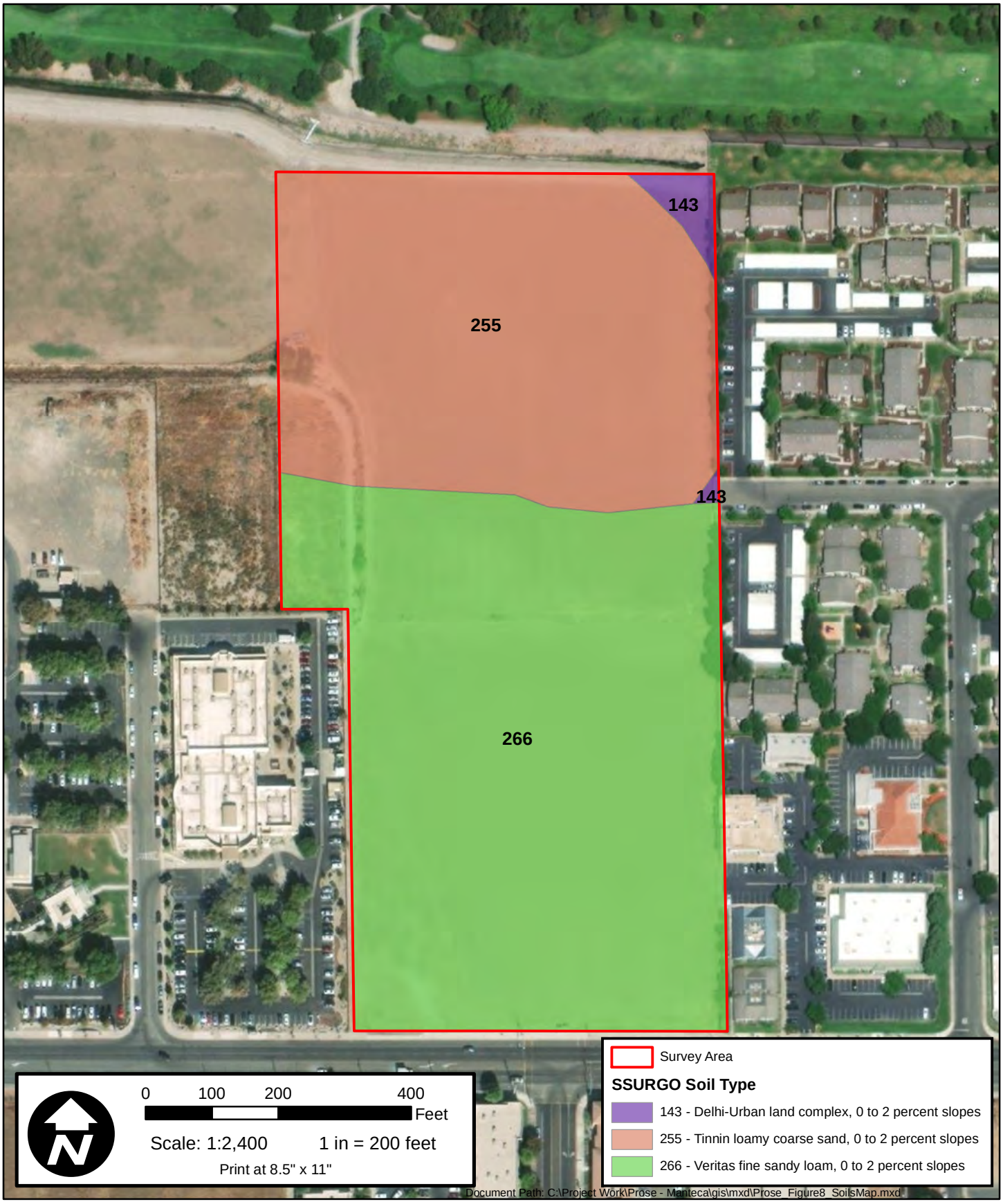


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Figure 7: Critical Habitat Map
Prose - Manteca Property
San Joaquin County, California

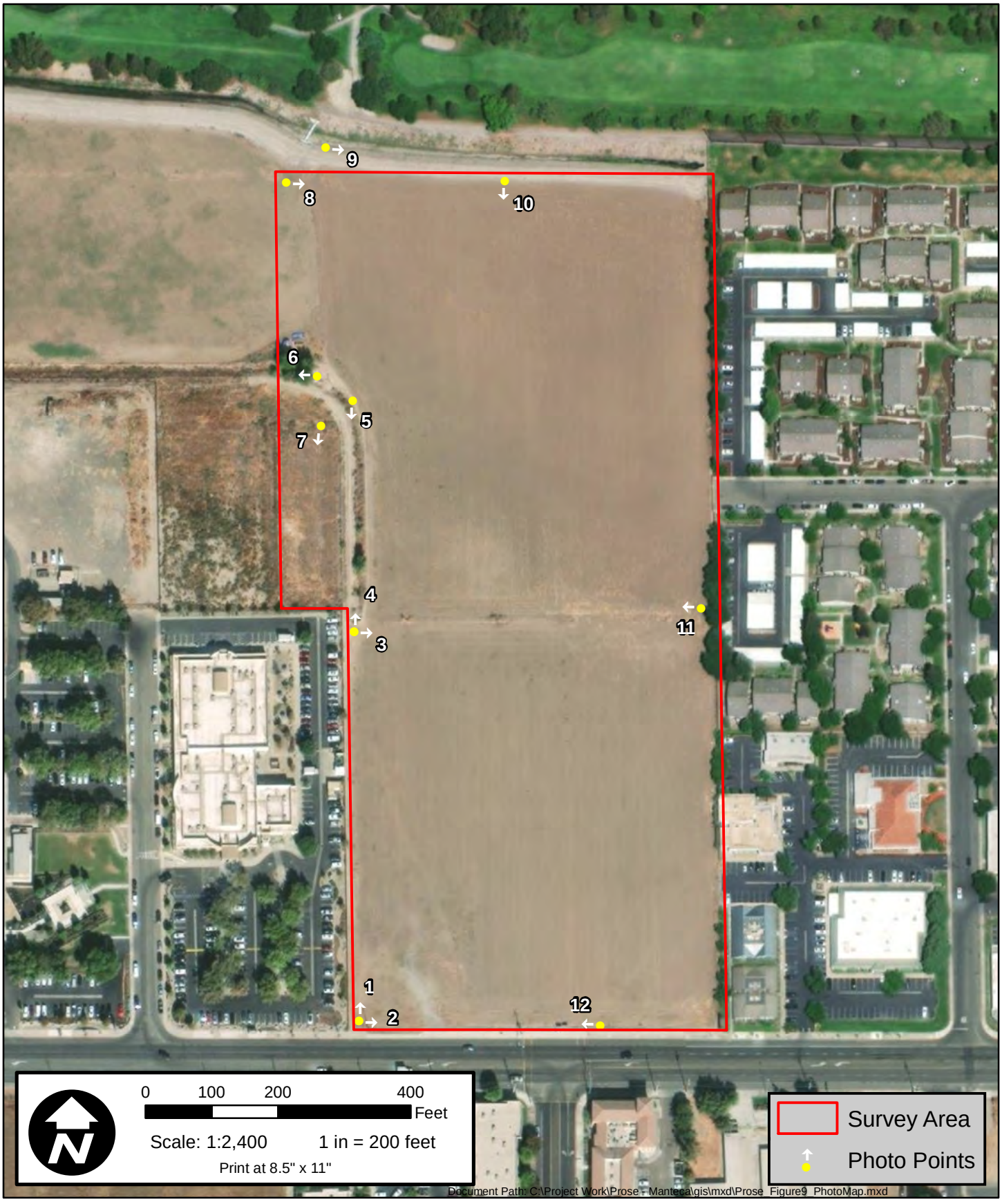
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Figure 8: Soils Map
Prose - Manteca Property
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Figure 9: Photo Point Map
Prose - Manteca Property
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Figure 10: Habitat Map
Prose - Manteca Property
San Joaquin County, California

Revision Date: 11/04/2021

ATTACHMENT 2

TABLES

Table 1 Plant and Wildlife Species Observed Within/Adjacent to the Survey Area

Table 2 Special-Status Species Occurring Within/Adjacent to the Survey Area

Table 1

Wildlife Species Observed Within/Adjacent to the Survey Area

Scientific Name	Common Name
Plant Species Observed	
Avena fatua	Wild oat
Brassica nigra	Black mustard
Bromus diandrus	Ripgut brome
Centaurea solstitialis	Yellow star thistle
Centromadia parryi ssp. *rudis*	Pappose tarweed
Convolvulus arvensis	Field bindweed
Croton setigerus	Turkey mullein
Digitaria sanguinalis	Crabgrass
Epilobium sp.	Willow herb
Festuca perennis	Italian rye grass
Raphanus raphanistrum	Wild radish
Animal Species Observed	
Birds	
Corvus brachyrhynchos	American crow
Mammals	
Felis catus	House cat (feral)

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
PLANTS					
alkali milk-vetch (*Astragalus tener* var. *Tener*)	-/-/1B.2	March – June	Playas, valley and foothill grasslands, and vernal pools in alkaline soils. Micro habitat consists of low ground, alkali flats, and flooded lands	Low No suitable habitat present	Presumed absent.
Alkali-sink goldfields (*Lasthenia chrysantha*)	-/-/1B.1	February – June	Vernal pools and wet, saline flats.	Low No suitable habitat present	Presumed absent.
Big tarplant (*Blepharizonia plumosa*)	-/-/1B.1	July – October	Valley and foothill grasslands, usually with clay soils.	Low Grassland present within Survey Area, but no clay soils.	Presumed absent.
California alkali grass (*Puccinellia simplex*)	-/-/1B.2	March – May	Usually occurs in wetlands, but occasionally found in non-wetlands. Generally grows in mineral springs and saline soils	Low No suitable habitat present	Presumed absent.
Caper-fruited tropidocarpum (*Tropidocarpum capparideum*)	-/-/1B.1	March – April	Valley and foothill grasslands on alkaline hills.	Low No suitable habitat present	Presumed absent.
Delta button-celery (*Eryngium racemosum*)	-/E/1B.1	June – October	Riparian scrub, among vernally mesic clay depressions.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Delta tule pea (*Lathyrus jepsonii* var. *jepsonii*)	-/-/1B.2	May – September	Freshwater and brackish marshes and swamps.	Low No suitable habitat present	Presumed absent.
Greene's tuctoria *(Tuctoria greenei)*	FE/CR/1B.1	May – July (September)	Annual herb found within vernal pools from 100-3,510 feet in elevation.	Low No suitable habitat present	Presumed absent.
Heartscale (*Atriplex cordulata* var. *cordulata*)	-/-/1B.2	April – October	Found in saline or alkaline soils among chenopod scrub, meadows and seeps, and valley and foothill grasslands with sandy soils.	Low No suitable habitat present	Not Likely to Occur.
Lesser saltscale (*Atriplex minuscula*)	-/-/1B.1	May – October	Alkaline and sandy soils among chenopod scrub, playas, and valley and foothill grasslands	Low No suitable habitat present	Not Likely to Occur.
Palmate-bracted bird's-beak *(Chloropyron palmatum)*	E/E/1B.1	May – October	Annual herb occurring in alkaline soils within chenopod scrub and valley and foothill grassland habitats	Low No suitable habitat present	Presumed absent.
Recurved larkspur (*Delphinium recurvatum*)	-/-/1B.2	March – June	Alkaline soils among chenopod scrub, cismontane woodland, and valley and foothill grasslands	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
saline clover (*Trifolium hydrophilum*)	-/-/1B.2	April – June	Marshes and swamps, valley and foothill grasslands with mesic, alkaline soils, and vernal pools.	Low No suitable habitat present	Presumed absent.
San Joaquin spearscale (*Atriplex joaquiniana)*	-/-/1B.2	April-October	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland in seasonal alkali wetlands or alkali sink scrub with *Distichlis spicata, Frankenia,* etc.	Low No suitable habitat present	Presumed absent.
Sanford's arrowhead (*Sagittaria sanfordii*)	-/-/1B.2	May – November	Marshes and swamps, and other assorted shallow freshwater features.	Low No suitable habitat present	Presumed absent.
Slough thistle (*Cirsium crassicaule*)	/-/-/1B.1	May – August	Chenopod scrub, marshes and swamps including sloughs, and riparian scrub areas.	Low No suitable habitat present	Presumed absent.
Suisun Marsh aster (*Symphyotrichum lentum*)	-/-/1B.2	April – November	Brackish and freshwater marshes and swamps.	Low No suitable habitat present	Presumed absent.
Watershield (*Brasenia schreberi*)	-/-/2B.3	June – September	Aquatic species found in freshwater marshes and swamps.	Low No suitable habitat present	Presumed absent.
Woolly rose-mallow (*Hibiscus lasiocarpos* var. *occidentalis*)	-/-/1B.2	June – September	Freshwater marshes and swamps, often among the riprap on levee sides.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Wright's trichocoronis (*Trichocoronis wrightii* var. *wrightii*)	-/-/2B.1	May – September	Alkaline soils among meadows and seeps, marshes and swamps, riparian forest, and vernal pools.	Low No suitable habitat present	Presumed absent.
Invertebrates					
Conservancy fairy shrimp (*Branchinecta conservatio*)	FE/-/-	Resident	A small crustacean that inhabits rather large, cool-water vernal pools with moderately turbid water. There are 8 known occurrences of the species.	Low No suitable habitat present	Presumed absent.
Crotch bumble bee (*Bombus crotchii*)	-/CE/-	Resident	Inhabits grassland and scrub areas, requiring hotter and drier environment than many bumble bee species. They nest underground, often in abandoned rodent dens and requires undisturbed nesting and winter sites.	Low Habitat is regularly disked and historically disturbed.	Presumed absent.
Monarch butterfly *(Danaus plexippus)*	CT/-/-	April - August	The species will forage from any nectar producing flowers but require milkweed plants (*Asclepias* spp.) to lay their eggs on. In the Western US, populations winter along the California coast.	Low No suitable habitat present	Presumed absent.
Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)	T/-/-	Resident	Only found in association with its host plant, elderberry (*Sambuscus* spp.). Most occurrences are found below 500 feet in elevation.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Vernal pool fairy shrimp (*Branchinecta lynchi*)	T/-/-	Resident	Endemic to central valley vernal pools and swales.	Low No suitable habitat present	Presumed absent.
Vernal pool tadpole shrimp (*Lepidurus packardi*)	E/-/-	Resident	Wide variety of ephemeral wetland habitats, small to large, cool to warm, basic to acidic water features.	Low No suitable habitat present	Presumed absent.
Western bumble bee (*Bombus occidentalis occidentalis*)	-/CE/-	February – November	Meadows and grasslands with abundant flora resources that provide pollen and nectar throughout their flight period. Typically nest underground, but may nest above ground in tree cavities, etc.	Low Grassland areas in the Survey Area are disked annually and do not support abundant flora.	Presumed absent.
Fish					
Delta smelt (*Hypomesus transpacificus*)	T/E/-	Resident	Endemic to the upper reaches of the San Francisco Bay Delta-Bay Estuary. Generally found in brackish water.	Low No suitable habitat present	Presumed absent.
Hardhead (*Mylopharodon conocephalus*)	-/-/SSC	Resident	Low to mid-elevations in relatively undisturbed habitats of larger streams. They prefer pools and runs with deep, clear water, slow velocities, and sand-gravel-boulder substrates.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Longfin smelt *(Spirinchus thaleichthys)*	C/ST/-	Resident	The historical and current range of the longfin smelt extends from Alaska southward to the San Francisco Bay-Delta in California, which includes the Delta, Suisun Marsh, San Pablo Bay, and the San Francisco Bay to the Golden Gate Bridge. The longfin smelt is a pelagic (lives in open water) estuarine fish that typically measures 3.5 to 4.3 inches standard length.	Low No suitable habitat present	Presumed absent.
Steelhead – Central Valley DPS (*Oncorhynchus mykiss irideus* pop. 11)	T/-/-	Resident	Cool, clear, well-oxygenated water preferred. Prefer complex structured river systems with large boulders, etc.	Low No suitable habitat present	Presumed absent.
Amphibians					
California red-legged frog (*Rana draytonii*)	T/-/SSC	May 1 – November 1	Lowlands and foothills in or near permanent deep water with dense, shrubby or emergent riparian habitat. Requires 11-20 weeks of permanent water for breeding and larval development. Must have access to aestivation habitat.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
California tiger salamander (*Ambystoma californiense*)	T/T/-	Aquatic Surveys – Once each in March, April, and May with at least 10 days between surveys. Upland Surveys – 20 nights of surveying under proper conditions beginning October 15 and ending March 15.	Vernal pools, swales and depressions for breeding, needs underground refugia.	Low No suitable habitat present	Presumed absent.
Western spadefoot (*Spea hammondii*)	-/-/SSC	Resident	Found primarily in grasslands, but also in valley-foothill hardwood woodlands. Breeding and egg-laying occur exclusively in vernal pools.	Low No suitable habitat present	Presumed absent.
Reptiles					
Giant gartersnake (*Thamnophis gigas*)	T/T/-	May 1 to October 1	Found in the Valley from the City of Chico, south to the Mendota Wildlife Area in Fresno County. Habitat includes marshes, sloughs, ponds, small lakes, low gradient streams, and other waterways and agricultural lands such as irrigation and drainage canals, rice fields, and the adjacent uplands.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Northern California legless lizard *(Anniella pulchra)*	-/-/SSC	May be active all year.	This fossorial lizard is found primarily in areas with sandy or loose organic soils with plenty of leaf litter. They forage at the base of shrubs and other vegetation.	Low No suitable habitat present	Presumed absent.
Birds					
burrowing owl (*Athene cunicularia*)	-/-/SCC	February – August	Dry open annual or perennial grassland, desert, and scrubland. Uses abandoned mammal burrows for nesting.	Low No mammal burrows observed on the Property.	Presumed absent.
Least Bell's vireo (*Vireo bellii pusillus*)	E/E/-	8 surveys between April 10 and July 31	Structurally diverse riparian habitat, including cottonwood-willow forests, oak woodlands, and mule fat scrub.	Low No suitable habitat present	Presumed absent.
Loggerhead shrike (*Lanius ludovicianus*)	-/-/SSC	February – August	Open grassland habitats, grazed grasslands. Uses shrubs for nesting, such as willow thickets or riparian habitat in the San Joaquin Valley.	Low Survey Area provides foraging habitat.	Not Likely to Occur.
Song sparrow ("Modesto" population) (*Melospiza melodia*)	-/-/SSC	February – August	Prefer emergent freshwater marshes dominated by tules (*Scripus* spp.) and cattails (*Typha* spp.) as well as riparian willow (*Salix* spp.) thickets, and riparian forests of Valley Oak (*Quercus lobata*) with blackberry (*Rubus* spp.) understory.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Swainson's hawk (*Buteo swainsoni*)	-/T/-	February – October	Nests in riparian areas and in oak savannah near foraging areas. Forages in alfalfa and grain fields with rodent populations.	Low No suitable habitat present	Presumed absent.
tricolored blackbird (*Agelaius tricolor*)	-/T/SSC	February – August	Nesting within seasonal wetland marshes, blackberry brambles or other protected substrates. Forages in annual grassland and wetland habitats.	Low No suitable habitat present	Presumed absent.
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)	T/E/-	June 15 – August 15	Wooded habitat with dense cover and water nearby, including woodlands with low, scrubby vegetation. Nests are often placed in willows along streams and rivers with nearby cottonwoods.	Low No suitable habitat present	Presumed absent.
white-tailed kite (*Elanus leucurus*)	-/-/FP	February – August	Various grassland habitats, urban land, oak woodlands with grassland for foraging.	Moderate Survey Area provides foraging habitat.	May occur.
Yellow-headed blackbird (*Xanthocephalus xathocephalus*)	-/-/SSC	February – August	Marshes with tall emergent vegetation such as tules (*Scripus* spp.) or cattails (*Typha* spp.) among edges and over relatively deep water.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Mammals					
Pallid bat (*Antrozous pallidus*)	-/-/SSC	N/A	Forages in grasslands, shrublands, deserts, forests, and woodlands. Most common in open, dry habitats. Roosts in rock crevices, caves, tree hollows, and buildings. Roosts must protect bats from high temperatures; very sensitive to disturbance of roosting sites.	Low Survey Area contains foraging habitat.	Not likely to Occur.
Riparian (=San Joaquin Valley) woodrat (*Neotoma fuscipes riparia*)	E/-/SSC	Resident	Prefer habitat with large amount of overall structure, with both understory and overstory cover. Most often observed in areas with an oak (*Quercus*) overstory and an understory of wild grape (*Vitus californica*), willow (*Salix* spp.), blackberry (*Rubus* spp.), wild rose (*Rosa californica*), or coyote bush (*Baccharis pilularis*).	Low No suitable habitat present	Presumed absent.
Riparian brush rabbit (*Sylvilagus bachmani riparius*)	E/E/-	Resident	Restricted to native riparian habitat along the San Joaquin River and its tributaries. Typically found among old-growth riparian forests dominated by Valley oak (*Quercus lobata*) with a thick understory and riparian communities dominated by willows (*Salix* spp.) with blackberry (*Rubus* spp.) and wild rose (*Rosa californica*).	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**

1. Special-status plants and animals as reported by the California Natural Diversity Data Base, California Native Plant Society, and other background research May 2021.
2. Order of Codes for Plants - Fed/State/CNPS
   Order of Codes for Animals - Fed/State/CDFW

Codes:
SSC - California Species of Special Concern
E - Federally/State Listed as an Endangered Species
T - Federally/State Listed as a Threatened Species
C – Species listed as a Candidate for federally listing
CE - Species listed as a Candidate for Endangered Status
CT – Species listed as a Candidate for Threatened Status
FP - State Fully Protected
1B - California Native Plant Society considers the plant Rare, Threatened, or Endangered in California and elsewhere.
2B - CNPS Plants Rare, Threatened or Endangered in California, but more common elsewhere.
– Seriously threatened in California.
– Moderately threatened in California.
– Plants about which more information is needed.

ATTACHMENT 3

SITE PHOTOGRAPHS



1. Photo Point 1, looking north. The flat topography and lack of vegetation throughout the site are visible. Note: the lighter colored soil is sand that separated and accumulated among micro-depressions from the recent rain.



2. Photo Point 2, looking east. West Yosemite Avenue is visible in the top left of the photo.



3. Photo Point 3, looking east. One of the now-isolated water control structures are visible in the top left of the photo.



4. Photo Point 4, looking north. The water control structure at the top of the irrigation canal is at the foreground.



5. Photo Point 5, looking south. Note the upland vegetation present within the ditch, and the lack of any sign of recent water conveyance, even though the survey was conducted following a large storm event.



6. Photo Point 6, looking west. At the Property line, the ground has been regraded, so the ditch no longer continues west.



7. Photo Point 7, looking south. This fenced off area is a water detention pond, but there was only signs of ponding immediately surrounding the culvert at the south end.



8. Photo Point 8, looking east.



9. Photo Point 9, looking east. This large drainage ditch is not located within the Property, but immediately north of it.



10. Photo Point 10, looking south. The flat topography of the Property is evident in this photo.



11. Photo Point 11, looking west. The now-isolated water control structures are visible in the photo.

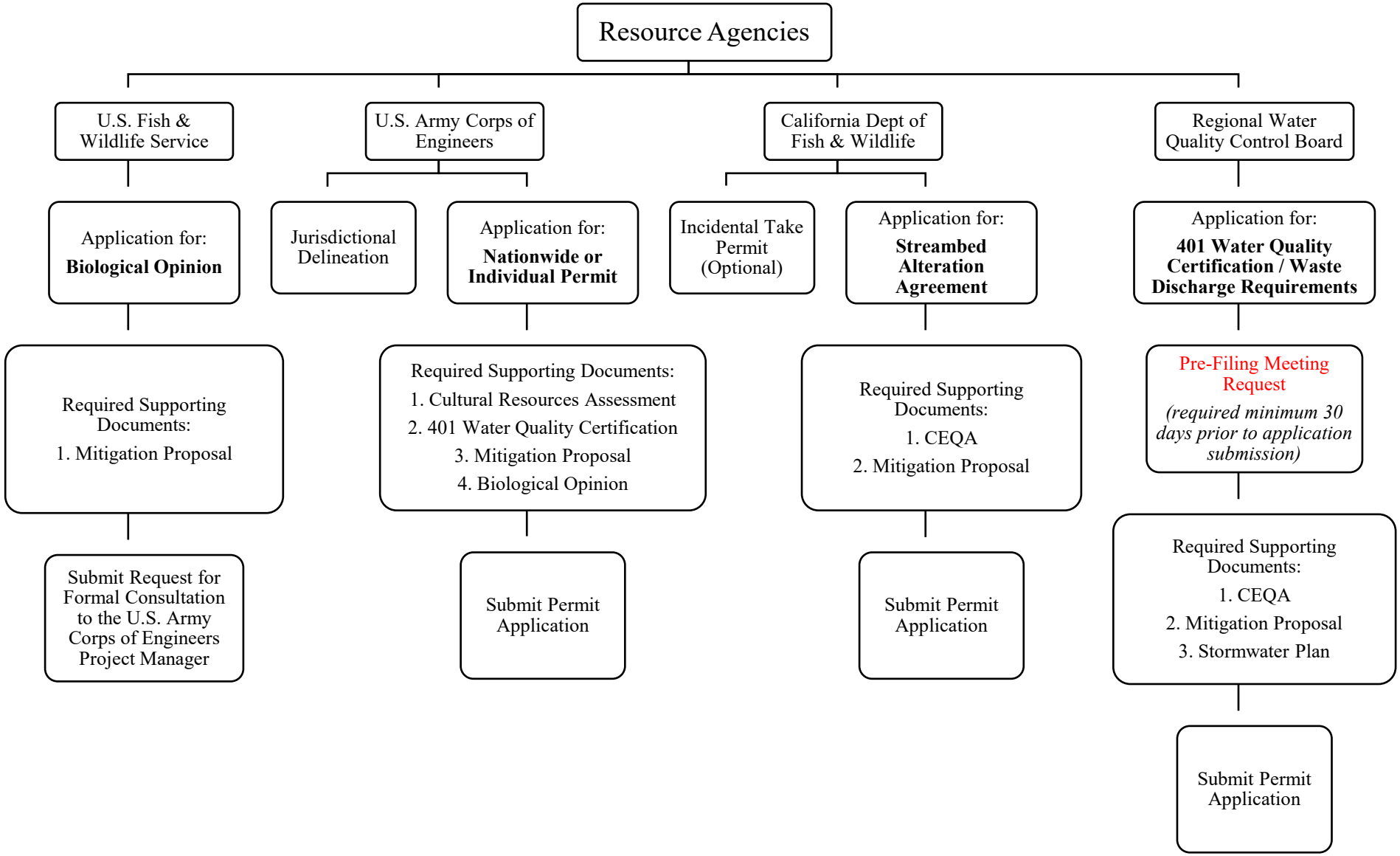


12. Photo Point 12, looking west. There is a 6”-12” cut within the topography along the southern boundary with West Yosemite Road.

ATTACHMENT 4

RESOURCE AGENCY PERMITTING FLOWCHART

OLBERDING ENVIRONMENTAL, INC.
Wetland Regulation and Permitting



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B.2 - Biological Resources Analysis–Drain No. 5 Off-site Improvements

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BIOLOGICAL RESOURCES ANALYSIS REPORT

FOR THE

PROSE - MANTECA DRAIN 5 PROPERTY

SAN JOAQUIN COUNTY, CALIFORNIA



Prepared for:

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JUNE 2022

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ATTACHMENT 2 TABLES

Table 1	Plant and Wildlife Species Observed Within/Adjacent to the Survey Area
Table 2	Special-Status Species Occurring Within/Adjacent to the Survey Area

ATTACHMENT 3 SITE PHOTOGRAPHS

This report should be cited as: Olberding Environmental, Inc. June 2022. *Biological Resources Analysis Report for the Prose – Manteca Drain 5 Property, San Joaquin County, California*. Prepared for First Carbon Solution, Rocklin CA .

SUMMARY

On June 9, 2022, Olberding Environmental, Inc. conducted a field reconnaissance survey of the Prose – Manteca Property Drain 5 (Property) for the purpose of identifying sensitive plant and wildlife species, sensitive habitats, and biological constraints potentially occurring on the Property. The Property surveyed is comprised of approximately 0.89 acre located in the City of Manteca, San Joaquin County, California.

Results of the initial reconnaissance survey indicate that the Property contains one drainage canal that might be considered jurisdictional by the U.S. Army Corps of Engineers (Corps), Regional Water Quality Control Board (RWQCB), and/or the California Department of Fish and Wildlife (CDFW). In addition, there is the potential for special-status animals including the white-tailed kite (*Elanus leucurus*) and Pallid bat (*Antrozous pallidus*) to utilize the property for foraging, although there is no nesting or roosting habitat on the Property.

Prior to completing the site survey for this report, site maps, topographic maps, and aerial photographs of the Property were obtained from several sources and reviewed. This information was used in association with the site visit to determine that the drainage canal located on the Property was historically constructed within upland habitat, and has a defined bed and bank. Within the Survey Area, water enters the canal from a culvert located a the very east end of the Survey Area. During the June 9 survey, there was only a small amount of stagnant water located at the very east end of the canal.

The U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) database, California Natural Diversity Database (CNDDB), and California Native Plant Society (CNPS) database were queried to create a list of special-status species with the potential to occur on the Property (Attachment 2, Table 2). After the June 9, 2022, site visit, it was determined that many of these species had no potential to occur on the Property. A total of two species were determined to have a low potential of occurring on the Property in a foraging capacity, and are discussed in more detail.

The white-tailed kite has a low potential to occur on the Property. The species forages within “urban land” and may utilize the ruderal and unvegetated habitat of the Survey Area for foraging. However, there is no nesting habitat for the species found on or surrounding the Property (dense oak canopy). As such, no further action for this species will need to be taken

No sign of bat use was observed on the Property during the June 2022 survey; however, based on habitat suitability, it was determined that bats have a low potential to utilize the site in a foraging capacity. These bat species include the California species of special concern, pallid bat. As there is no potential roosting habitat on the Property, no further action needs to be taken for this species.

1.0 INTRODUCTION

Olberding Environmental, Inc. has conducted a biological resources analysis (biological constraints assessment) of the Prose – Manteca Drain 5 Property, located in Manteca, San Joaquin County, California. This Biological Resources Analysis included a review of pertinent literature on relevant background information and habitat characteristics of the site. Our review included researching existing information in the CNDDB maintained by the CDFW and the CNPS *Inventory of Rare and Endangered Vascular Plants of California*. Also included was a review of information related to species of plants and animals that could potentially utilize the described habitats identified on and immediately surrounding the Property. To assist in the assessment, a field reconnaissance investigation of the Property was conducted on June 9, 2022. This report documents the methods, results, and conclusions for the reconnaissance-level survey associated with the biological resources analysis for the Property.

2.0 LOCATION

The Property is located within the city limits of Manteca, approximately 1 mile north of State Highway 120, approximately 2.7 miles west of State Highway 99, and 3 miles east of Interstate 5 (I-5). The Property is bordered by the Manteca Park Golf Course on the north, an apartment complex to the east, and fallow agriculture fields to the south and west. Attachment 1, Figure 1 depicts the regional location of the Property in San Joaquin County, and Attachment 1, Figure 2 illustrates the vicinity of the Property in relationship to the City of Manteca. Attachment 1, Figure 3 identifies the location of the Property on the USGS 7.5 Quadrangle Map for Manteca. An aerial photograph of the Property has been included as Attachment 1, Figure 4.

Access to the Property is provided from I-5. From Sacramento take I-5 south until exit 462 for Louise Avenue and turn left (east) onto East Louise Avenue. After approximately 1.5 miles turn right (south) onto McKinley Avenue. Travel for 1 mile and then turn left (east) onto West Yosemite Avenue. The Property is approximately 1.5 miles on the left (north) side of the road, on the north side of the empty lot.

3.0 PROPERTY DESCRIPTION

The Property encompasses approximately 0.89 acre in a rectangular shape, just south of the Manteca Park Golf Course. The property supports two habitat types, ruderal/unvegetated, and a drainage canal (Attachment 1, Figure 10). According to historic USGS maps, the property has been used as a drainage canal since at least 1952. During the June 2022 survey, the canal was almost completely dry, with only a couple inches of stagnant water in the very east end of the canal. The entire Survey Area is sparsely vegetated, with only clumps of ruderal vegetation such as prickly Russian thistle (*Salsola tragus*), Chinese thornapple (*Datura ferox*), Jersey cudweed (*Pseudognaphalium luteoalbum*), and puncture vine (*Tribulus terrestris*). A complete list of species observed is included in Attachment 2, Table 1.

The topography of the Property consists of an artificial drainage canal that has been dug into the surrounding habitat. The top of bank of the drainage canal sits at an elevation of 27 feet above sea level, while the bed of the drainage canal is at 18 feet above sea level.

4.0 REGULATORY SETTING

4.1 Federal Regulatory Setting

4.1.1 Plants and Wildlife

The federal Endangered Species Act (ESA) of 1973 (16 USC 1531 et seq., as amended) prohibits federal agencies from authorizing, permitting, or funding any action that would result in biological jeopardy to a plant or animal species listed as Threatened or Endangered under the Act. Listed species are taxa for which proposed and final rules have been published in the Federal Register (USFWS 2021a). If a proposed project may jeopardize listed species, Section 7 of the ESA requires consideration of those species through formal consultations with the USFWS. Federal Proposed species (USFWS 2021b) are species for which a proposed listing as Threatened or Endangered under ESA has been published in the Federal Register. If a proposed project may jeopardize proposed species, Section 7 of the ESA affords consideration of those species through informal conferences with USFWS. The USFWS defines federal Candidate species as "those taxa for which we have on file sufficient information on biological vulnerability and threats to support issuance of a proposed rule to list, but issuance of the proposed rule is precluded by other higher priority listing actions" (USFWS 2021b). Federal Candidate species are not afforded formal protection, although USFWS encourages other federal agencies to give consideration to Candidate species in environmental planning.

4.1.2 Wetlands/Waters

On January 23, 2020, the EPA and the Corps enacted the Navigable Waters Protection Rule (NWPR) to redefine "waters of the United States" to include four categories. However, the EPA and Corps are in receipt of the U.S. District Court for the District of Arizona's August 30, 2021, order vacating and remanding the NWPR in the case of *Pascua Yaqui Tribe v. U.S. Environmental Protection Agency*. In light of this order, the agencies have halted implementation of the NWPR and are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime until further notice. The landward extent was defined following the definitions provided in the Corps of Engineers regulations [40 CFR §230.3]:

(a) *Jurisdictional waters.* The Clean Water Act defines "waters of the United States" as:

(1) All waters which are currently used, or were used in the past, or may be susceptible to use in interstate or foreign commerce, including all waters which are subject to the ebb and flow of the tide,

(2) All interstate waters including interstate wetlands,

(3) All other waters such as intrastate lakes, rivers, streams (including intermittent streams), mudflats, sandflats, wetlands, sloughs, prairie potholes, wet meadows, playa lakes, or natural ponds, the use, degradation, or destruction of which could affect interstate or foreign commerce including any such waters,

(4) Which are or could be used by interstate or foreign travelers for recreational or other purposes, or

(5) From which fish or shellfish are or could be taken and sold in interstate or foreign commerce, or

(6) Which are used or could be used for industrial purposes by industries in interstate commerce,

(7) All impoundments of waters otherwise defined as waters of the United States under this definition,

(8) Tributaries of waters identified in paragraphs (s)(1) through (4) of this section,

(9) The territorial sea,

(10) Wetlands adjacent to waters (other than waters that are themselves wetlands) identified in paragraphs (s)(1) through (6) of this section; waste treatment systems, including treatment ponds or lagoons designed to meet the requirements of CWA (other than cooling ponds as defined in 40 CFR 423.11(m) which also meet the criteria of this definition) are not waters of the United States.

(b) *Non-jurisdictional waters*. The following are not "waters of the United States":

(1) Waters or water features that are not identified in (a)(1) through (4) above,

(2) Groundwater, including groundwater drainage through subsurface drainage systems,

(3) Ephemeral features, including ephemeral streams, swales, gullies, rills, and pools,

(4) Diffuse stormwater run-off and direction sheet flow over upland,

(5) Ditches that are not territorial seas or traditional navigable waters, or tributaries, and those portions constructed in adjacent wetlands that do not satisfy the conditions of adjacent wetlands,

(6) Prior converted cropland,

(7) Artificially irrigated areas, including fields flooded for agricultural production, that would revert to upland should application of irrigation water to that area cease,

(8) Artificial lakes and ponds, including water storage reservoirs and farm, irrigation, stock watering, and clog cleaning ponds, constructed of excavated in upland or in non-jurisdictional waters, so long as those artificial lakes and ponds are not impoundments of jurisdictional waters that meet the conditions of lakes and ponds, and impoundments of jurisdictional waters,

(9) Water-filled depressions constructed or excavated in upland or in non-jurisdictional waters incidental to mining or construction activity, and pits excavated in upland or in non-jurisdictional waters for the purpose of obtaining fill, sand, or gravel,

(10) Stormwater control features constructed of excavated in upland or in non-jurisdictional waters to convey, treat, infiltrate, or store stormwater run-off,

(11) Groundwater recharge, water reuse, and wastewater recycling structures, including detention, retention, and infiltrations basins and ponds, constructed, or excavated in upland or in non-jurisdictional waters, and

(12) Waste treatment systems.

(c) *Definitions.* In this section, the following definitions apply:

(1) *Adjacent wetlands.* Wetlands that (i) abut, meaning to touch at least at one point or side of territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters; (ii) are inundated by flooding from territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters in a typical year; (iii) are physically separated from a water defined territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters only by a natural berm, bank, dune, or similar natural feature; or (iv) are physically separated from territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of jurisdictional waters only by an artificial dike, barrier, or similar artificial structure so long as that structure allows for a direct hydrologic surface connection between the wetlands and territorial seas or traditional navigable waters, tributaries, or lakes, ponds, and impoundments of

jurisdictional waters in a typical year, such as through a culvert, flood or tide gate, pump, or similar artificial feature.

(2) *Ditch.* A constructed or excavated channel used to convey water.

(3) *Ephemeral.* Surface water flowing or pooling only in direct response to precipitation (e.g., rain or snow fall).

(4) *High tide line.* The line of intersection of the land with the water's surface at the maximum height reached by a rising tide. The high tide line may be determined, in the absence of actual data, by a line of oil or scum along the shore objects, a more or less continuous deposit of fine shell or debris on the foreshore or berm, other physical markings of characteristics, vegetation lines, tidal gages, or other suitable means that delineate the general height reached by a rising tide.

(5) *Intermittent.* Surface water flowing continuously during certain times of the year and more than in direct response to precipitation (e.g., seasonally when the groundwater table is elevated or when snowpack melts).

(6) *Lakes and ponds, and impoundments of jurisdictional waters.* Standing bodies of open water that contribute surface water flow to territorial seas or traditional navigable waters in a typical year either directly or through one or tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands. A lake, pond, or impoundment of a jurisdictional water does not lose its jurisdictional status if it contributes to surface water flow to a downstream jurisdictional water in a typical year through a channelized non-jurisdictional surface water feature, through a culvert, dike, spillway, or similar artificial feature, or through a debris pile, boulder field, or similar natural feature. A lake or pond, or impoundment of a jurisdictional waters is also jurisdictional if it is inundated by flooding from territorial seas or traditional navigable waters, tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands in a typical year.

(7) *Ordinary high-water mark.* That line on the shore established by the fluctuations of water and indicated by physical characteristics such as clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas.

(8) *Perennial.* Surface water flowing continuously year-round.

(9) *Prior converted cropland.* Any area that prior to December 23, 1985, was drained or otherwise manipulated for the purpose, or having the effect, of making production of an agricultural product possible. An area is no longer considered prior converted cropland for purposes of the CWA when the area is abandoned and has reverted to wetlands, as defined in paragraph (c)(16) of this section. Abandonment occurs when prior converted cropland is not used for, or in support of, agricultural purposes at least one in the immediately preceding five years.

(10) *Snowpack.* Layers of snow that accumulate over extended periods of time in certain geographic regions or at high elevation.

(11) *Tidal waters and waters subject to the ebb and flow of the tide.* Those waters that rise and fall in a predictable and measurable rhythm or cycle due to the gravitational pulls of the moon and sun. Tidal waters and waters subject to the ebb and flow of the tide end where the rise and fall of the water surface can no longer be practically measured in a predictable rhythm due to masking by hydrologic, wind, or other effects.

(12) *Tributary.* A river, stream, or similar naturally occurring surface water channel that contributes surface water flow to the territorial seas or traditional navigable waters in a typical year either directly or through one of more tributaries, lakes, ponds, and impoundments of jurisdictional waters, or adjacent wetlands. A tributary must be perennial or intermittent in a typical year.

(13) *Typical year.* When precipitation and other climatic variables are within the normal periodic range (e.g., seasonally, annually) for the geographic area of the applicable aquatic resource based on a rolling thirty-year period.

(14) *Upland.* Any land area that under normal circumstances does not satisfy all three wetland factors (i.e., hydrology, hydrophytic vegetation, hydric soils) identified in paragraph (c)(16) of this section, and does not lie below the ordinary high-water mark or the high tide line of a jurisdictional water.

(15) *Waste treatment system.* Includes all components, including lagoons and treatment ponds (such as settling or cooling ponds), designed to either convey or retain, concentrate, settle, reduce, or remove pollutants, either actively or passively, from wastewater prior to discharge (or eliminating any such discharge).

(16) *Wetlands.* Areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life

in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

4.1.3 Migratory Bird Treaty Act

Raptors are migratory bird species protected by international treaty under the Migratory Bird Treaty Act (MBTA) of 1918 (16 U.S.C. 703-711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed in 50 CFR. Part 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). Sections 3503, 3503.5, and 3800 of the California Fish and Game Code prohibit the take, possession, or destruction of birds, their nests or eggs. Implementation of the take provisions requires that Property-related disturbance at active nesting territories be reduced or eliminated during critical phases of the nesting cycle (generally February 1 – September 1, annually). Disturbance that causes nest abandonment and/or loss of reproductive effort (e.g., killing or abandonment of eggs or young) or the loss of habitat upon which the birds depend, is considered "taking" and is potentially punishable by fines and/or imprisonment. Such taking would also violate federal law protecting migratory birds (e.g., MBTA).

4.1.4 Federal Bald and Golden Eagle Protection Act

In addition to protection under the MBTA, both the bald eagle and the golden eagle are also protected by the Bald and Golden Eagle Protection Act of 1940 (16 U.S.C. 668-668c). The Bald and Golden Eagle Protection Act, and amended several times since being enacted in 1940, prohibits anyone, without a permit issued by the Secretary of the Interior, from "taking" bald or golden eagles, including their parts, nests, or eggs (USFWS 2007). The Act provides criminal penalties for persons who "take, possess, sell, purchase, barter, offer to sell, purchase or barter, transport, export or import, at any time or any manner, any bald eagle ... [or any golden eagle], alive or dead, or any part, nest, or egg thereof." The Act defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb" (USFWS 2007).

For purposes of these guidelines, "disturb" means: "to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, 1) injury to an eagle, 2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or 3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior" (USFWS 2007).

In addition to immediate impacts, this definition also covers impacts that result from human-induced alterations initiated around a previously used nest site during a time when eagles are not present, if, upon the eagle's return, such alterations agitate or bother an eagle to a degree that interferes with or interrupts normal breeding, feeding, or sheltering habits, and causes injury, death or nest abandonment (USFWS 2007).

4.2 State Regulatory Setting

4.2.1 Plants and Wildlife

Property permitting and approval requires compliance with California Environmental Quality Act (CEQA), the 1984 California Endangered Species Act (CESA), and the 1977 Native Plant Protection Act (NPPA). The CESA and NPPA authorize the California Fish and Game Commission to designate Endangered, Threatened and Rare species and to regulate the taking of these species (§§2050-2098, Fish & Game Code). The California Code of Regulations (Title 14, §670.5) lists animal species considered Endangered or Threatened by the State.

The Natural Heritage Division of the CDFW administers the state rare species program. The CDFW maintains lists of designated Endangered, Threatened, and Rare plant and animal species (CDFW 2021b and 2021c). Listed species either were designated under the NPPA or designated by the Fish and Game Commission. In addition to recognizing three levels of endangerment, the CDFW can afford interim protection to candidate species while they are being reviewed by the Fish and Game Commission.

The CDFW also maintains a list of animal species of special concern (CDFW 2021c), most of which are species whose breeding populations in California may face extirpation. Although these species have no legal status, the CDFW recommends considering them during analysis of proposed property impacts to protect declining populations and avoid the need to list them as endangered in the future.

Under provisions of §15380(d) of the CEQA Guidelines, the CEQA lead agency and CDFW, in making a determination of significance, must treat non-listed plant and animal species as equivalent to listed species if such species satisfy the minimum biological criteria for listing. In general, the CDFW considers plant species on List 1A (Plants Presumed Extinct in California), List 1B (Plants Rare, Threatened, or Endangered in California and elsewhere), or List 2 (Plants Rare, Threatened, or Endangered in California, But More Common Elsewhere) of the CNPS *Inventory of Rare and Endangered Vascular Plants of California* (Skinner and Pavlik 1994) as qualifying for legal protection under §15380(d). Species on CNPS Lists 3 or 4 may, but generally do not, qualify for protection under this provision.

Sensitive habitats include riparian corridors, wetlands, habitats for legally protected species and CDFW Species of Special Concern, areas of high biological diversity, areas providing important wildlife habitat, and unusual or regionally restricted habitat types. Habitat types considered sensitive include those listed on the CNDDB working list of “high priority” habitats (i.e., those habitats that are rare or endangered within the borders of California) (Holland 1986).

4.2.2 Wetlands/Waters

The RWQCB regulates activities in wetlands and other waters through §401 of the Clean Water Act. Section 401 requires a state water quality certification for properties subject to 404 regulations. Requirements of the certification include mitigation for loss of wetland habitat. In the San Francisco Bay region, the RWQCB may identify additional wetland mitigation beyond the mitigation required by the Corps. California Fish and Game Code §§1600-1607 require the CDFW be notified of any activity that could affect the bank or bed of any stream that has value to fish and wildlife. Upon notification, the CDFW has the discretion to execute a Streambed Alteration Agreement. The CDFW defines a stream as follows:

> *"... a body of water that flows at least periodically...through a bed or channel having banks and supporting fish and other aquatic life. This includes watercourses having a subsurface flow that supports or has supported riparian vegetation."*
>
> (Source: Streambed Alteration Program, California Department of Fish and Wildlife, 2016).

In practice, CDFW authority is extended to any "blue line" stream shown on a USGS topographic map, as well as unmapped channels with a definable bank and bed. Wetlands, as defined by the Corps, need not be present for CDFW to exert authority.

4.2.3 California Environmental Quality Act

According to Appendix G of the CEQA (CEQA 2021) Guidelines, a proposed project would have a significant impact on biological resources if it would:

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 CDFW and USFWS?

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 CDFW or USFWS?

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

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

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

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

4.3 Local Regulatory Setting

4.3.1 San Joaquin County Multi-Species Habitat Conservation and Open Space Plan

In November of 2000, San Joaquin County implemented the San Joaquin County Multi-Species Habitat Conservation and Open Space Plan (SJMSCP) (SJCOG 2000). The plan was developed to provide a strategy for balancing the protection of Open Space and wildlife with the protection of local landowners and agricultural practices. The SJMSCP, 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 SJMSCP.

5.0 METHODS OF ANALYSIS FOR GENERAL BIOLOGICAL RESOURCES

A special-status plant and wildlife species database search and review was conducted using the CNDDB and other sources. An additional search was conducted for special-status plants using CNPS *Inventory* on-line. Special-status species reports were accessed by searching the CNDDB database for the Manteca, Lathrop, Avena, Peters, Stockton West, Stockton East, Salida, Vernalis, and Ripon USGS 7.5-minute quadrangles which surround the Property, and by examining those species that have been identified in the vicinity of the Property. These quadrangles will be henceforth noted as surrounding quads. The database report identified special-status species known to occur in the region or those that have the potential to occur in the vicinity of the Property. The CNDDB report was used to focus special-status species analysis of the site prior to the reconnaissance surveys.

An Olberding Environmental biologist conducted a reconnaissance-level survey of the Property on June 9, 2022. The survey consisted of walking throughout the Property and evaluating the site and adjacent lands for potential biological resources. Existing conditions, observed plants and wildlife, adjacent land use, soils, and potential biological resource constraints were recorded during the visit. Plant and wildlife species observed within and adjacent to the Property during the reconnaissance survey are listed in Attachment 2, Table 1. Site photographs are provided in Attachment 3 of this document. Attachment 1, Figure 9 shows where each site photo was taken.

The objectives of the field survey were to determine the potential presence or absence of special-status species habitat listed in the CNDDB database report and to identify any wetland areas that

could be potentially regulated by the Corps, RWQCB, and/or CDFW (CDFW 2022a). In addition, the Olberding Environmental biologist looked for other potential sensitive species or habitats that may not have been obvious from background database reports or research. Surveys conducted after the growing season or conducted outside of the specific flowering period for a special-status plant cannot conclusively determine the presence or absence of such plant species; therefore, site conditions and habitat type were used to determine potential for occurrence. When suitable habitat was observed to support a special-status plant or animal species, it was noted in the discussion for that particular species. Regulatory agencies evaluate the possibility of occurrence based on habitats observed on-site and the degree of connectivity with other special-status animal habitats in the vicinity of the Property. These factors are discussed in each special-status plant or animal section. Potential for occurrence of each special-status or protected plant and animal species was evaluated using the following criteria.

- **Present**: The species has been recorded by CNDDB or other literature as occurring on the Property and/or was observed on the Property during the reconnaissance survey or protocol surveys.

- **May Occur**: The species has been recorded by CNDDB or other literature as occurring within five miles of the Property, and/or was observed within five miles of the Property, and/or suitable habitat for the species is present on the Property or its immediate vicinity.

- **Not Likely to Occur**: The species has historically occurred on or within five miles of the Property but has no current records. The species occurs within five miles of the Property, but only marginally suitable habitat conditions are present. The Property is likely to be used only as incidental foraging habitat or as an occasional migratory corridor.

- **Presumed Absent**: The species will not occur on the Property due to the absence of suitable habitat conditions, and/or the lack of current occurrences. Alternatively, if directed or protocol-level surveys were done during the proper occurrence period and the species was not found, it is presumed absent.

Sources consulted for agency status information include USFWS (2022a) for federally listed species and CDFW (2022c) for State of California listed species. Based on information from the above sources, Olberding Environmental developed a target list of special-status plants and animals with the potential to occur within or in the vicinity of the Property (Attachment 2, Table 2).

5.1 Soils Evaluation

The soils present on a property may determine if habitat on the site is suitable for certain special-status plants and animals. The host plants of some special-status invertebrates may also require specific soil conditions. In the absence of suitable soil conditions, special-status plants or animals

requiring those conditions would be presumed absent. Information regarding soil characteristics for the Property was obtained by viewing the Natural Resources Conservation Service (NRCS) Web Soil Survey report for the Property (NRCS 2022).

5.2 Plant Survey Methods

The purposes of the botanical surveys were (1) to characterize the habitat types (plant communities) of the study area; (2) to determine whether any suitable habitat for any special-status plant species occurs within the study area; and (3) to determine whether any sensitive habitat types (wetlands) occur within the study area. Site conditions and plant habitat surveys are important tools in determining the potential occurrence of plants not recorded during surveys (e.g., special-status plants) because presence cannot conclusively be determined if field surveys are conducted after the growing season or conducted outside a specific flowering period.

5.2.1 Review of Literature and Data Sources

The biologist conducted focused surveys of literature and special-status species databases in order to identify special-status plant species and sensitive habitat types with potential to occur in the study area. Sources reviewed included the CNDDB occurrence records (CDFW 2022a) and CNPS *Inventory* (CNPS 2022) for the surrounding quads; and standard flora (Hickman 2012). From the above sources, a list of special-status plant species with potential to occur in the Property vicinity was developed (Attachment 2, Table 2).

5.2.2 Field Surveys

A biologist from Olberding Environmental conducted a reconnaissance-level survey to determine habitat types and the potential for special-status plants based on the observed habitat types. All vascular plant species that were identifiable at the time of the survey were recorded and identified using keys and descriptions in The Jepson Manual (Hickman 2012).

The habitat types occurring on the Property were characterized according to pre-established categories. In classifying the habitat types on the site, the generalized plant community classification schemes of *A Manual of California Vegetation* (Sawyer, Keeler-Wolf, and Evens 2009) were consulted. The final classification and characterization of the habitat types of the study area were based on field observations.

5.3 Wildlife Survey Methods

The purposes of the wildlife survey were to identify special-status wildlife species and/or potential special-status wildlife habitats within the study area.

5.3.1 Review of Literature and Data Sources

A focused review of literature and data sources was conducted in order to determine which special-status wildlife species had potential to occur in the vicinity of the Property. Current agency status information was obtained from USFWS (2022a) for species listed as Threatened or Endangered, as well as Proposed and Candidate species for listing, under the federal ESA; and from CDFW (2022b, 2022c) for species listed as Threatened or Endangered by the state of California under the CESA or listed as "species of special concern" by CDFW. From the above sources, a list of special-status wildlife species with potential to occur in the Property vicinity was developed (Attachment 2, Table 2).

5.3.2 Field Surveys

General Wildlife Survey – An Olberding Environmental biologist conducted a survey of species habitat within the entire study area, including visible portions of the adjacent properties. The purpose of the habitat survey was to evaluate wildlife habitats and the potential for any protected species to occur on or adjacent to the Property.

Reconnaissance-Level Raptor Survey – A reconnaissance-level raptor survey was conducted on the Property. Observation points were established on the periphery of the site to view raptor activity over a fifteen- to thirty-minute time period. This survey was conducted with the use of binoculars and notes were taken for each species occurrence. Additionally, utility poles and perch sites in the vicinity of the Property were observed. All raptor activity within and adjacent to the Property was recorded during the reconnaissance-level observation period.

Reconnaissance-Level Burrowing Owl (Athene cunicularia) Survey – A reconnaissance-level burrowing owl survey was also conducted on the Property to identify potential burrow sites or burrowing owl use of on-site habitat. The general presence and density of suitable burrow sites (e.g., rodent burrows) was evaluated for the Property.

6.0 RESULTS FOR GENERAL BIOLOGICAL RESOURCES

The search and review of the CNDDB database reports revealed the occurrence of special-status plant and wildlife species that occur in the habitats found within the Property boundaries (CDFW 2021a). The CNDDB database and background data were reviewed for the surrounding quads. Animal occurrences shown on Attachment 1, Figure 5 and plant occurrences shown on Attachment 1, Figure 6 are located within 5 miles of the Property and were reviewed for their potential to occur on the Property based on general habitat types. Results of the species review is tabulated on Attachment 2, Table 2. Critical habitat within the surrounding area is shown on Attachment 1, Figure 7.

6.1 Soil Evaluation Results

The NRCS (2022) reports two soil types within the Property. A map of these soil types can be found in Attachment 1, Figure 8. The soil types mapped included the following (USDA 1992):

Delhi-Urban land complex, 0 to 2 percent slopes – The Delhi-Urban series consists of very deep and somewhat excessively drained soils. This soil type occurs on dunes and typically consists of 50% Delhi loamy sand and 35% Urban land that are intricately intermingled. Permeability is rapid in the Delhi soil and the available water capacity is low. Runoff is slow, and the hazard of water erosion is slight. The Urban land consists of areas covered by roads, parking lots, etc., with the soil material under the impervious surface similar to Delhi loamy sand. Its stratified layers consist of the following (colors are for dry soil unless otherwise stated):

- **Ap1** – 0 to 3 inches; loamy sand, dark grayish brown when moist; single grained; loose, very friable, nonsticky and nonplastic; common fine and many very fine roots; many very fine interstitial pores; neutral; clear smooth boundary.
- **AP2** – 3 to 8 inches; light brownish gray loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; neutral; clear smooth boundary.
- **A** – 8 to 16 inches; grayish brown loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastic; few very fine roots; many very fine interstitial pores; slightly acid; clear wavy boundary.
- **C1** – 16 to 26 inches; grayish brown loamy sand, dark grayish brown when moist; massive; loose, very friable, nonsticky and nonplastice, few fine and common medium roots; many very fine interstitial pores; slightly acid; gradual smooth boundary.
- **C2** – 26 to 44 inches; pale brown sand, brown when moist; massive; loose, very friable, nonsticky and nonplastic; few medium roots; many very fine interstitial pores; slightly acid; gradual smooth boundary.
- **C3** – 44 to 60 inches; [ale brown sand, brown when moist; massive; loose, very friable, nonsticky and nonplastic; few fine interstitial pores; slightly acid

Tinnin loamy coarse sand, 0 to 2 percent slopes – The Tinnin series consists of very deep, well drained, and nearly level soil that is formed on alluvial fans. The alluvium is derived from granitic rock sources. Included in this unit are small areas of Veritas soils. Permeability is rapid and the available water capacity is low. Runoff is slow and the hazard of water erosion is slight. Its stratified layers consist of the following (colors are for dry soil unless otherwise stated):

- **AP** – 0 to 14 inches; grayish brown loam coars sand, very dark grayish brown when moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; mildly alkaline; diffuse smooth boundary.
- **A** – 14 to 28 inches; grayish brown loamy coarse sand, very dark grayish brown when moist; weak fine subangular blocky structure; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; neutral; diffuse wavy boundary
- **C1** – 28 to 53 inches; brown loamy coarse sand, dark brown when moist; common medium distinct light brown mottles, dark brown when moist; massive; soft, very friable, nonsticky and nonplastic; few fine and common very fine roots; many very fine interstitial pores; 2% rounded pebbles; slightly acid; diffuse wavy boundary.
- **C2** – 53 to 75 inches; pale brown loamy coarse sand, brown when moist; common medium distinct light brown mottles, dark brown when moist; massive; slightly hard, friable, nonsticky and nonplastic; many very fine interstitial pores; 2% rounded pebbles; neutral.

6.2 Plant Survey Results

6.2.1 Floristic Inventory and Habitat Characterization

The Property only supports two habitat types, ruderal/unvegetated and a drainage canal. In classifying the habitat on the Property, generalized plant community classification schemes were used (Sawyer, Keeler-Wolf, and Evens 2009). The final classification and characterization of the habitat type of the Property was based on field observations. Special-status plant species that occurred within 5 miles of the Property are shown in Attachment 1, Figure 6.

The habitat types and a description of the plant species present within the habitat types are provided below. The habitats found on the Property are mapped on Attachment 1, Figure 10. Dominant plant species are also noted. A complete list of plant species observed on the Property can be found within Attachment 2, Table 1.

Ruderal/Unvegetated

The Property consists almost entirely of ruderal/unvegetated habitat. Dirt access roads run along the top of bank on both the north and south sides of the drainage canal and are completely unvegetated. The remainder of the Property is sparsely vegetated with species such as prickly Russian thistle, Chinese thornapple, Jersey cudweed, and puncture vine. More than 75% of the habitat consist of bare ground. A complete list of the plant species identified are included in Attachment 2, Table 1.

Drainage Canal

There is a drainage canal that runs the length of the Survey Area, flowing from east to west. The canal was almost completely dry during the June 2022 survey, with only a small amount of stagnant water in the very east portion of the canal. Water enters the canal through a culvert at the very east end of the Property, and the canal continues off of the Property to the west. Most of the drainage canal is unvegetated, with sparse amounts of ruderal vegetation. A complete list of the plant species identified are included in Attachment 2, Table 1.

Special-Status Plant Species

Special-status plant species include species listed as Rare, Threatened, or Endangered by the USFWS (2021a) or by the State of California (CDFW 2021b). Federal Proposed and Candidate species (USFWS, 2021b) are also special-status species. Special-status species also include species listed on List 1A, List 1B, or List 2 of the CNPS Inventory (Skinner and Pavlik, 1994; CNPS 2021). All species in the above categories fall under state regulatory authority under the provisions of CEQA and may also fall under federal regulatory authority. Considered special-status species are species included on List 3 (Plants About Which We Need More Information—A Review List) or List 4 (Plants of Limited Distribution—A Watch List) of the CNPS *Inventory*. These species are considered to be of lower sensitivity and generally do not fall under specific state or federal regulatory authority. Specific mitigation considerations are not generally required for List 3 and List 4 species.

Attachment 2, Table 2 includes a list of special-status plants with the potential to occur within or in the immediate vicinity of the Property based on a review of the surrounding quads. The special-status plant species identified by the CNDDB as potentially occurring on the Property are known to grow only from specific habitat types. The specific habitats or “micro-climate” necessary for many of the plant species to occur are not found within the boundaries of the Property. The Property has been managed as a drainage canal constructed within upland habitat for at least the last 70 years. Because of this regular human interference, and the poor quality of the habitat, it is unlikely that the Property supports any special-status plant species.

Four CNDDB occurrences of special-status plants were identified within a five-mile radius of the Property (Attachment 1, Figure 6). However, it was determined that due to the regular disturbance of habitat present on the site, it is unlikely that any of these four special-status plant species will occur on the Property.

6.3 Wildlife Survey Results

6.3.1 General Wildlife Species and Habitats

A complete list of wildlife species observed within the Property can be found in Attachment 2, Table 1. Wildlife species commonly occurring within habitat types present on the Property are discussed below:

Ruderal/Unvegetated

Due to the heavily disturbed and unvegetated nature of the Property and its small size, there were a limited number of wildlife species observed during the survey. The only wildlife observed was a feral cat (*Felis catus*) that traversed the property. It is likely that other "urban" mammals such as racoon (*Procyon lotor*) or striped skunk (*Mephitis mephitis*) would utilize the habitat on the Property. Additionally, bat species such as the pallid bat (*Antrozous pallidus*) may use habitat on the property for foraging. No reptiles were observed on the Property, but it is possible that common species such as the western fence lizard (*Sceloporus occidentalis*) may occur on the Property.

Drainage Canal

Due to the heavily disturbed and unvegetated nature of the Property and its small size, there were a limited number of wildlife species observed during the survey. In addition to the feral cat, numerous Pacific chorus frog tadpoles were observed within the shallow water of the canal. Due to the small, isolated, and shallow nature of the drainage canal, it is unlikely that other aquatic vertebrates would utilize this feature other than the "urban" mammals described above.

BIRDS

White-tailed Kite (*Elanus leucurus*). Federal Species of Concern, CDFW: Fully Protected.

The white-tailed kite is falcon-shaped with a long white tail. This raptor has black patches on the shoulders that are highly visible while the bird is flying or perching. White-tailed kites forage in annual grasslands, farmlands, orchards, chaparral, and at the edges of marshes and meadows. They are found nesting in trees and shrubs such as willows (*Salix sp.*), California sycamore (*Platanus racemosa*), and coast live oak (*Quercus agrifolia*) often near marshes, lakes, rivers, or ponds. This raptor often hovers while inspecting the ground below for prey. The White-tailed Kite eats mainly small mammals, as well as some birds, lizards, and insects. Annual grasslands are considered good foraging habitat for white-tailed kites, which will forage in human-impacted areas.

The nearest CNDDB occurrence of this species (#110) is located approximately 9 miles north of the Property in the City of Stockton. It is unlikely that this species would nest on the Property, as

there are no large trees on or adjacent to the Property that would provide nesting habitat. Given the information above, it is unlikely that the white-tailed kite will nest on the Property, but it may be present in a foraging capacity.

MAMMALS

Special-status Bats

Bats (Order – *Chiroptera*) are the only mammals capable of "true" flight. They are nocturnal feeders and locate their prey, which consists of small to medium sized insects by echolocation. Bats consume vast amounts of insects making them very effective pest control agents. They may eat as much as their weight in insects per day. Maternity roosts comprised of only females, may be found in buildings or mine shafts with temperatures up to 40 degrees Celsius and a high percentage of humidity to ensure rapid growth in the young. Female bats give birth to only one or two young annually and roost in small or large numbers. Males may live singly or in small groups, but scientists are still unsure of the whereabouts of most males in summer.

Special-status bats with the potential to occur on the Property are listed below:

- Pallid bat (*Antrozous pallidus*)

There are no CNDDB occurrences of this species within five miles of the Property. The nearest occurrence of pallid bat (#279) is located approximately 15 miles northeast of the Property in Farmington. Several specimens were collected in 1951. The ruderal/disturbed grassland habitat on the Property could provide foraging habitat for the species, however there are no trees, rocks, or other structures that the bats may use for roosting. Given the above information, the Pallid bat has a low potential to occur on the Property in a foraging capacity only.

6.3.2 Critical Habitat

As shown in Figure 7, the Property is located near the critical habitat unit V01 for Delta smelt (*Hypomesus transpacificus*). Critical habitat was established for this species on December 19, 1994 (Federal Register 59 No. 242, pp. 65256-65279). As the Property is not located within the critical habitat unit and does not contain habitat for Delta smelt, there will be no impact to the designated critical habitat.

7.0 CONCLUSIONS

7.1 Wetlands/Waters

Results of the biological resource analysis survey conducted by Olberding Environmental indicate that the Property contains a drainage canal that may be considered jurisdictional by the Corps, RWQCB, and/or CDFW. The canal was constructed in upland habitat to drain storm

water from the surrounding landscape, and eventually flows into the Sacramento/San Joaquin Delta. While the feature appears to be ephemeral in nature, it does have a defined bed and bank, represented by a break in slope and a change in the vegetation cover.

7.2 Special-status Plants

It was determined that due to the heavily modified nature of the Survey Area extending back decades, there is no potential habitat for special-status plants.

7.3 Special-status Wildlife

Special-status Invertebrates – Given the vegetation that was identified on the Property, and the lack of vernal pool features, there is no potential that any special-status invertebrates would occur on the property.

Special-status Fish – Due to the lack of any permanent wetlands or waters, and the isolated nature of the drainage canal, there is no potential that any special-status fish would occur on the Property.

Special-status Amphibians – Due to the lack of any vernal pools or deep, relatively permanent water features on the Property, there is no potential that any special-status amphibians would occur on the Property.

Special-status Reptiles – Due to the lack of any low gradient waterways, or dense leaf litter, there is no potential that any special-status reptiles would occur on the Property.

Foraging or Nesting Raptor/Passerine Species – Due to the vegetation identified on the site, the lack of mammal burrows, and the lack of any large trees or nesting habitat, there is no potential for any special-status birds to nest on the Property. While there is the potential for birds, such as white-tailed kite to utilize the Property for foraging, there is no available nesting habitat for this species on or surrounding the Property.

Special-Status Mammals – Given the presence of suitable onsite habitat; the pallid bat has a low potential to occur on the Property in a foraging capacity. However, due to the lack of any trees or other large structures on the Property, there is no potential for any roosting habitat.

8.0 RECOMMENDATIONS

- **Corps Jurisdictional Delineation** – A Corps wetland delineation should be prepared to document the actual extent of jurisdictional features if any construction activity could result in impacts to wetlands/waters. If the wetlands/waters are deemed jurisdictional and construction activities are proposed that could impact these features, permits must be obtained prior to construction. Setbacks from the wetlands/water features may be

required to protect habitat quality and to protect water quality. Permitting to allow impacts to wetlands/waters features may also require mitigation.

- **Pre-Construction Avian Survey** – If proposed project construction-related activities would take place during the nesting season (February through August), preconstruction surveys for nesting passerine birds and raptors (birds of prey) in trees adjacent to the Property should be conducted by a competent biologist 14 days prior to the commencement of the tree removal or site grading activities.

  If any birds listed under the Migratory Bird Treaty Act are found to be nesting within the proposed project site or within the area of influence, an adequate protective buffer zone should be established by a qualified biologist to protect the nesting site. This buffer shall be a minimum of 50 feet from the project activities for passerine birds, and a minimum of 250 feet for other raptors. The distance shall be determined by a competent biologist based on the site conditions (topography, if the nest is in a line of sight of the construction and the sensitivity of the birds nesting). The nest site(s) shall be monitored by a competent biologist periodically to see if the birds are stressed by the construction activities and if the protective buffer needs to be increased. Once the young have fledged and are flying well enough to avoid project construction zones (typically by August), the project can proceed without further regard to the nest site(s).

- **Erosion Control** – Grading and excavation activities could expose soil to increased rates of erosion during construction periods. During construction, runoff from the Property could adversely surrounding habitats and cause increased particulate matter to enter the storm drain system. Implementation of appropriate mitigation measures would ensure that impacts to aquatic systems would be avoided or minimized. Mitigation measures may include best management practices (BMP's) such as hay bales, silt fencing, placement of straw mulch and hydro seeding of exposed soils after construction as identified in the Storm Water Pollution Prevention Plan (SWPPP).

9.0 LITERATURE CITED

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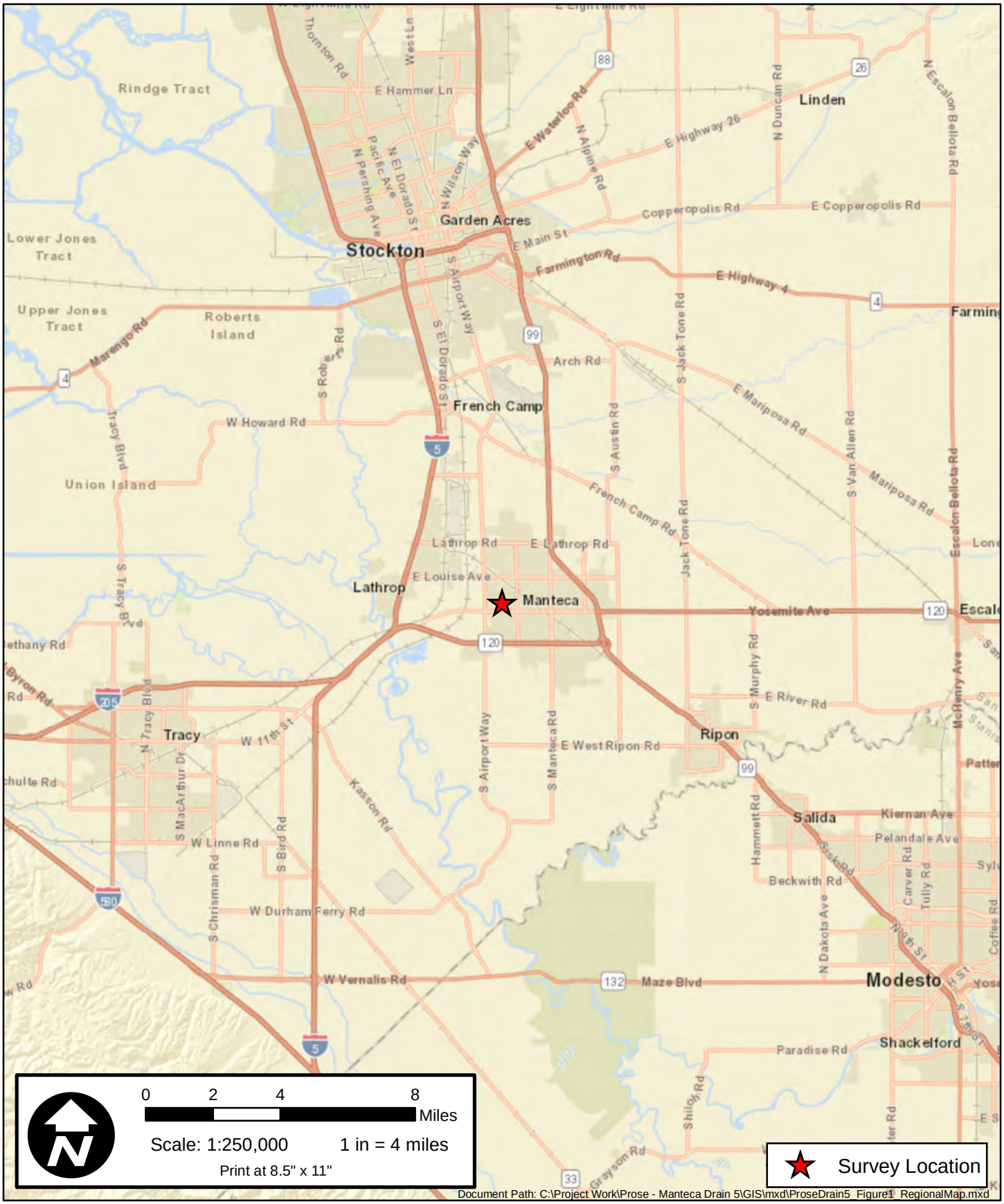
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ATTACHMENTS

ATTACHMENT 1

FIGURES

Figure 1	Regional Map
Figure 2	Vicinity Map
Figure 3	USGS Topographic Map
Figure 4	Aerial Map
Figure 5	CNDDB Wildlife Occurrences within 5 miles
Figure 6	CNDDB Plant Occurrences within 5 miles
Figure 7	USFWS Critical Habitat
Figure 8	Soils Map
Figure 9	Photo Point Map
Figure 10	Habitat Map
Figure 11	Special-Status Species Observed Map



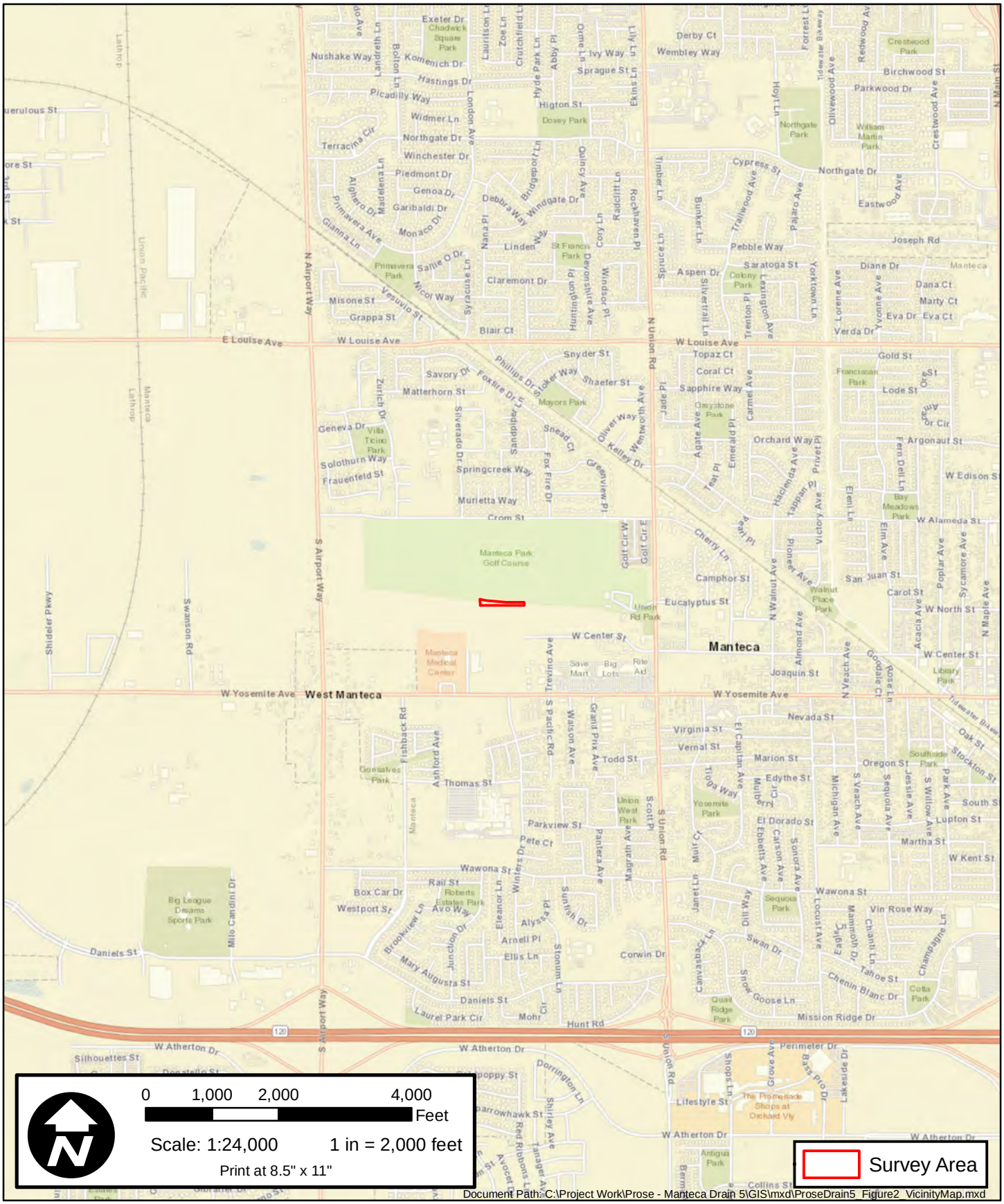
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Figure 1: Regional Map
Prose Manteca Drain 5 Property
San Joaquin County, California

Revision Date: 06/16/2022

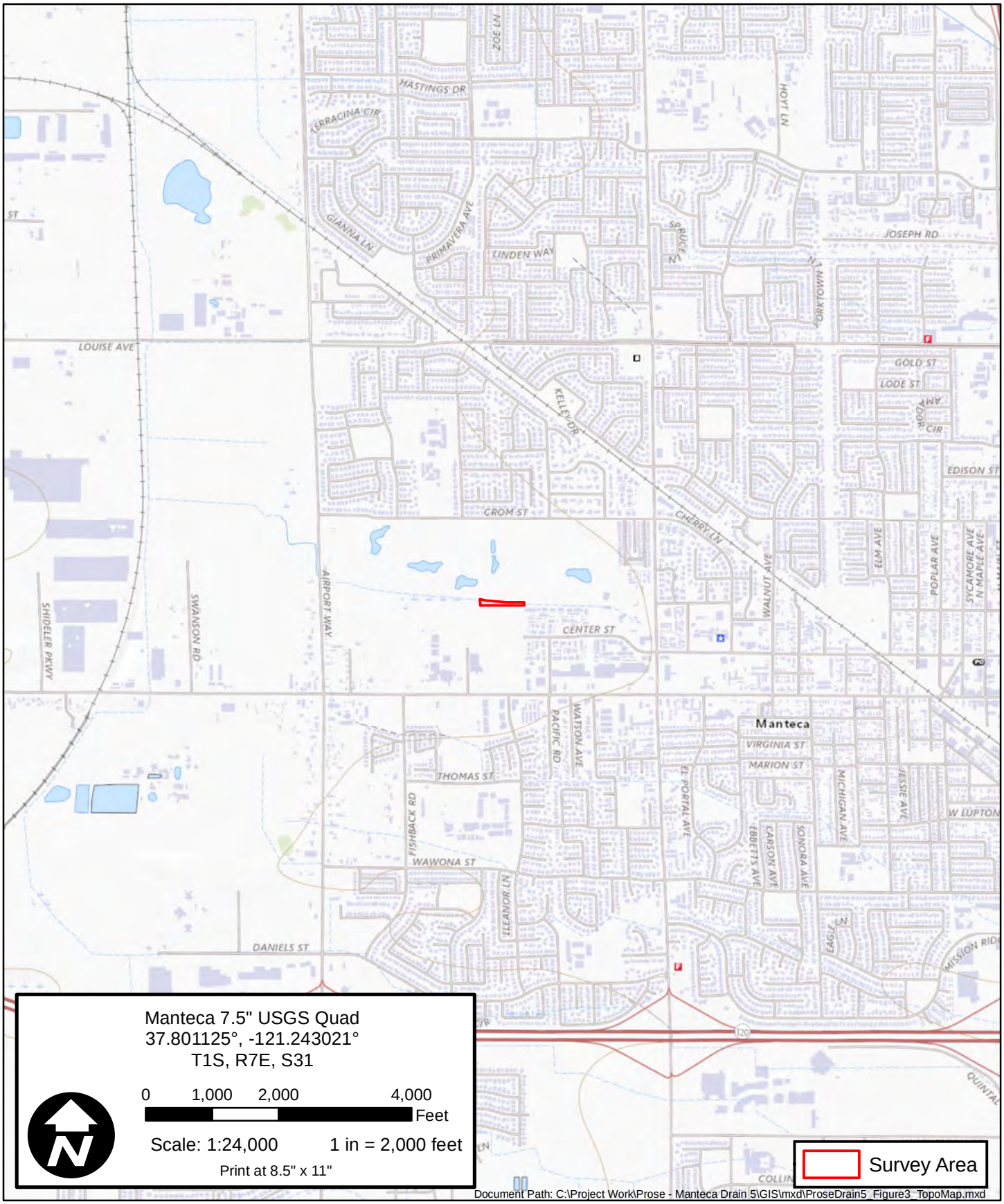


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Figure 2: Vicinity Map
Prose Manteca Drain 5 Property
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Figure 3: USGS Topographic Map
Prose Manteca Drain 5 Property
San Joaquin County, California

Revision Date: 06/16/2022

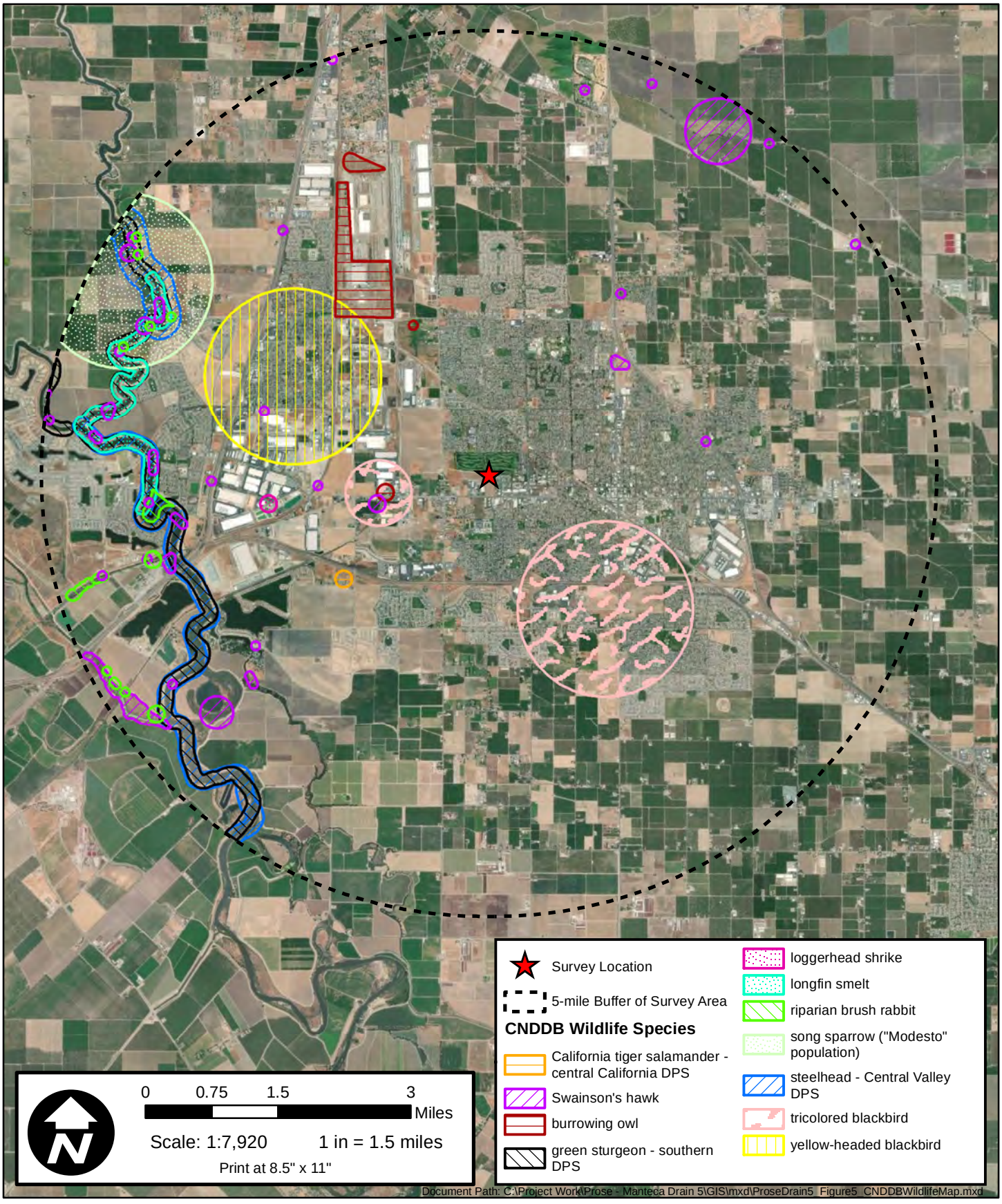


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Figure 4: Aerial Map
Prose Manteca Drain 5 Property
San Joaquin County, California

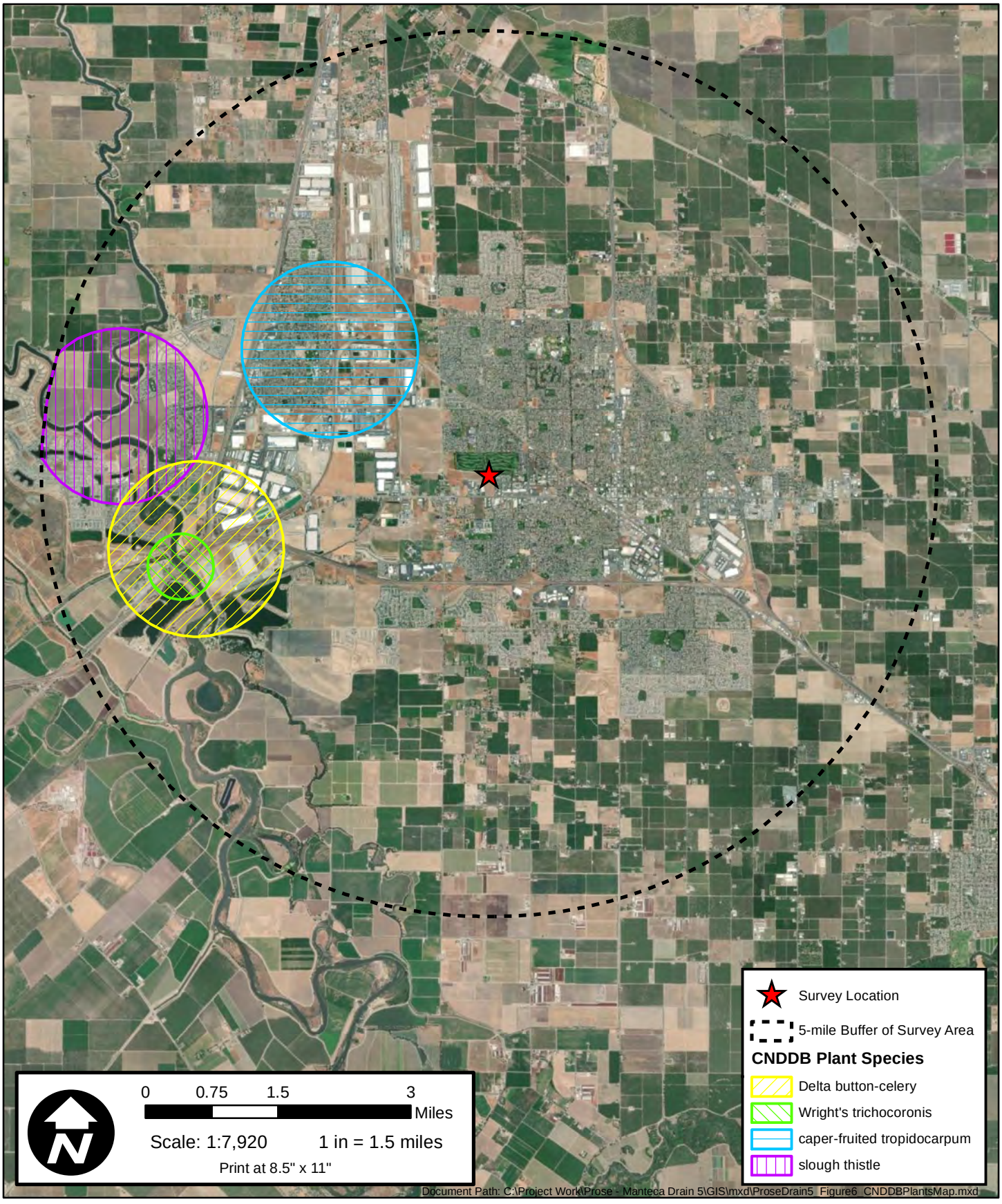
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Figure 5: CNDDB Wildlife Map
Prose Manteca Drain 5 Property
San Joaquin County, California

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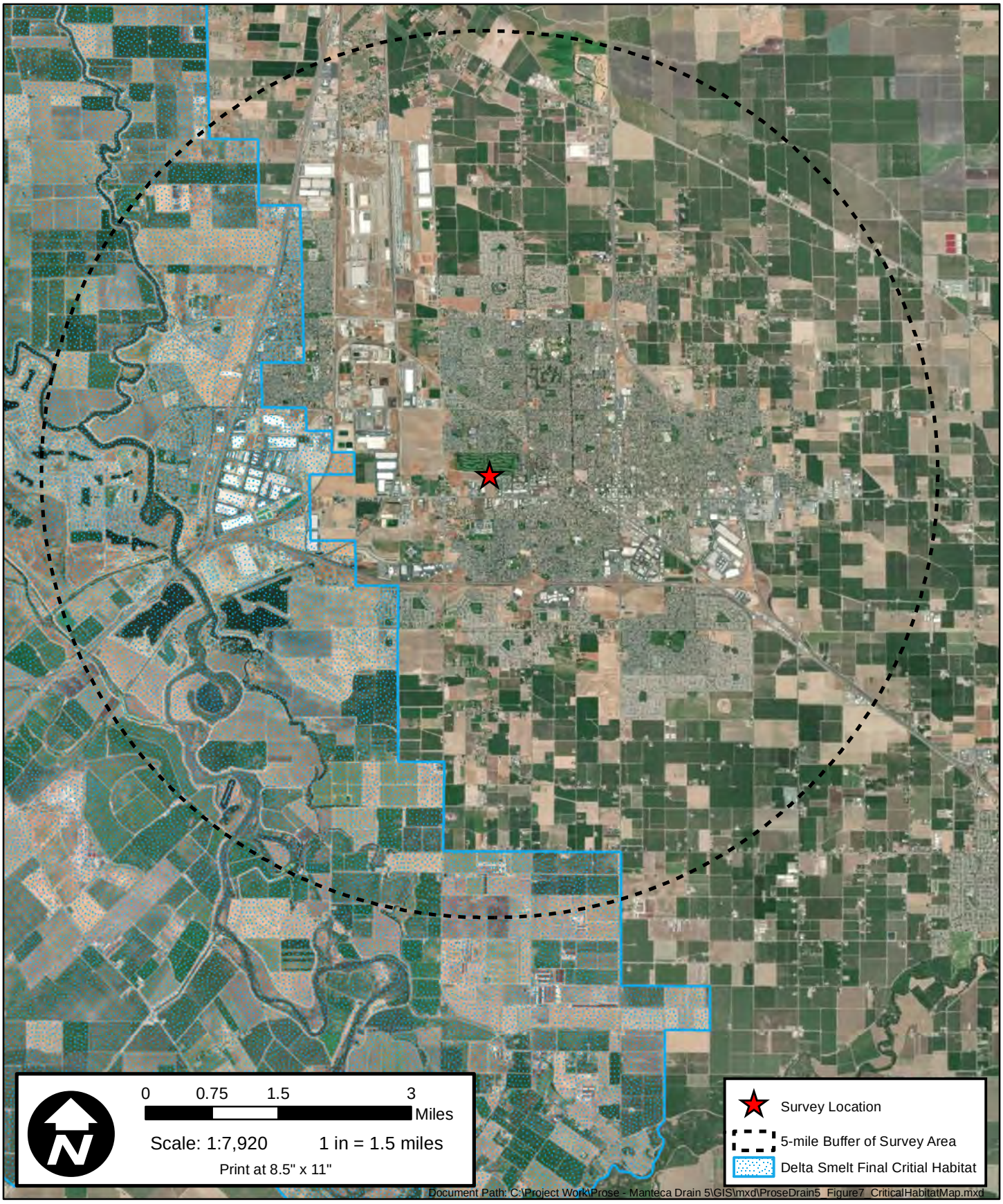


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Figure 6: CNDDB Plants Map
Prose Manteca Drain 5 Property
San Joaquin County, California

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Figure 7: Critical Habitat Map
Prose Manteca Drain 5 Property
San Joaquin County, California

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Figure 8: Soils Map
Prose Manteca Drain 5 Property
San Joaquin County, California

Revision Date: 06/16/2022



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Figure 9: Photo Point Map
Prose Manteca Drain 5 Property
San Joaquin County, California

Revision Date: 06/16/2022



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Figure 10: Habitat Map
Prose Manteca Drain 5 Property
San Joaquin County, California

Revision Date: 06/24/2022

ATTACHMENT 2

TABLES

Table 1 Plant and Wildlife Species Observed Within/Adjacent to the Survey Area

Table 2 Special-Status Species Occurring Within/Adjacent to the Survey Area

Table 1

Wildlife Species Observed Within/Adjacent to the Survey Area

Scientific Name	Common Name
Plant Species Observed	
Ailanthus altissima	Tree of heaven
Capsella bursa-pastoris	Shepherd's purse
Cucurbita pepo	Field pumpkin
Cyperus rotundus	Nutgrass
Datura ferox	Chinese thornapple
Echinochloa crus-galli	Barnyard grass
Erigeron bonariensis	Flax-leaf fleabane
Erigeron canadensis	Canada horseweed
Erodium moschatum	Whitestem filaree
Festuca perennis	Italian rye grass
Helianthus annuus	Common sunflower
Mirabilis jalapa	Wishbone bush
Persicaria maculosa	Spotted ladysthumb
Poa annua	Annual blue grass
Pseudognaphalium luteoalbum	Jersey cudweed
Raphanus raphanistrum	Wild radish
Rumex sp.	Dock
Salsola tragus	Prickly Russian thistle
Sonchus oleraceus	Sow thistle
Tribulus terrestris	Puncture vine
Veronica anagallis-aquatica	Water speedwell
Animal Species Observed	
Amphibians	
Pseudacris regilla	Pacific chorus frog
Mammals	
Felis catus	House cat (feral)

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
PLANTS					
alkali milk-vetch (*Astragalus tener* var. *Tener*)	-/-/1B.2	March – June	Playas, valley and foothill grasslands, and vernal pools in alkaline soils. Micro habitat consists of low ground, alkali flats, and flooded lands	Low No suitable habitat present	Presumed absent.
Alkali-sink goldfields (*Lasthenia chrysantha*)	-/-/1B.1	February – June	Vernal pools and wet, saline flats.	Low No suitable habitat present	Presumed absent.
Big tarplant (*Blepharizonia plumosa*)	-/-/1B.1	July – October	Valley and foothill grasslands, usually with clay soils.	Low No suitable habitat present	Presumed absent.
California alkali grass (*Puccinellia simplex*)	-/-/1B.2	March – May	Usually occurs in wetlands, but occasionally found in non-wetlands. Generally grows in mineral springs and saline soils	Low No suitable habitat present	Presumed absent.
Caper-fruited tropidocarpum (*Tropidocarpum capparideum*)	-/-/1B.1	March – April	Valley and foothill grasslands on alkaline hills.	Low No suitable habitat present	Presumed absent.
Delta button-celery (*Eryngium racemosum*)	-/E/1B.1	June – October	Riparian scrub, among vernally mesic clay depressions.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Delta tule pea (*Lathyrus jepsonii* var. *jepsonii*)	-/-/1B.2	May – September	Freshwater and brackish marshes and swamps.	Low No suitable habitat present	Presumed absent.
Greene's tuctoria *(Tuctoria greenei)*	FE/CR/1B.1	May – July (September)	Annual herb found within vernal pools from 100-3,510 feet in elevation.	Low No suitable habitat present	Presumed absent.
Heartscale (*Atriplex cordulata* var. *cordulata*)	-/-/1B.2	April – October	Found in saline or alkaline soils among chenopod scrub, meadows and seeps, and valley and foothill grasslands with sandy soils.	Low No suitable habitat present	Not Likely to Occur.
Lesser saltscale (*Atriplex minuscula*)	-/-/1B.1	May – October	Alkaline and sandy soils among chenopod scrub, playas, and valley and foothill grasslands	Low No suitable habitat present	Not Likely to Occur.
Palmate-bracted bird's-beak *(Chloropyron palmatum)*	E/E/1B.1	May – October	Annual herb occurring in alkaline soils within chenopod scrub and valley and foothill grassland habitats	Low No suitable habitat present	Presumed absent.
Recurved larkspur (*Delphinium recurvatum*)	-/-/1B.2	March – June	Alkaline soils among chenopod scrub, cismontane woodland, and valley and foothill grasslands	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Saline clover (*Trifolium hydrophilum*)	-/-/1B.2	April – June	Marshes and swamps, valley and foothill grasslands with mesic, alkaline soils, and vernal pools.	Low No suitable habitat present	Presumed absent.
San Joaquin spearscale (*Atriplex joaquiniana)*	-/-/1B.2	April-October	Chenopod scrub, meadows and seeps, playas, valley and foothill grassland in seasonal alkali wetlands or alkali sink scrub with *Distichlis spicata, Frankenia,* etc.	Low No suitable habitat present	Presumed absent.
Sanford's arrowhead (*Sagittaria sanfordii*)	-/-/1B.2	May – November	Marshes and swamps, and other assorted shallow freshwater features.	Low No suitable habitat present	Presumed absent.
Slough thistle (*Cirsium crassicaule*)	/-/-/1B.1	May – August	Chenopod scrub, marshes and swamps including sloughs, and riparian scrub areas.	Low No suitable habitat present	Presumed absent.
Suisun Marsh aster (*Symphyotrichum lentum*)	-/-/1B.2	April – November	Brackish and freshwater marshes and swamps.	Low No suitable habitat present	Presumed absent.
Watershield (*Brasenia schreberi*)	-/-/2B.3	June – September	Aquatic species found in freshwater marshes and swamps.	Low No suitable habitat present	Presumed absent.
Woolly rose-mallow (*Hibiscus lasiocarpos* var. *occidentalis*)	-/-/1B.2	June – September	Freshwater marshes and swamps, often among the riprap on levee sides.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Wright's trichocoronis (*Trichocoronis wrightii* var. *wrightii*)	-/-/2B.1	May – September	Alkaline soils among meadows and seeps, marshes and swamps, riparian forest, and vernal pools.	Low No suitable habitat present	Presumed absent.
Invertebrates					
Conservancy fairy shrimp (*Branchinecta conservatio*)	FE/-/-	Resident	A small crustacean that inhabits rather large, cool-water vernal pools with moderately turbid water. There are 8 known occurrences of the species.	Low No suitable habitat present	Presumed absent.
Monarch butterfly *(Danaus plexippus)*	CT/-/-	April - August	The species will forage from any nectar producing flowers but require milkweed plants (*Asclepias* spp.) to lay their eggs on. In the Western US, populations winter along the California coast.	Low No suitable habitat present	Presumed absent.
Valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*)	T/-/-	Resident	Only found in association with its host plant, elderberry (*Sambuscus* spp.). Most occurrences are found below 500 feet in elevation.	Low No suitable habitat present	Presumed absent.
Vernal pool fairy shrimp (*Branchinecta lynchi*)	T/-/-	Resident	Endemic to central valley vernal pools and swales.	Low No suitable habitat present	Presumed absent.
Vernal pool tadpole shrimp (*Lepidurus packardi*)	E/-/-	Resident	Wide variety of ephemeral wetland habitats, small to large, cool to warm, basic to acidic water features.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Fish					
Delta smelt (*Hypomesus transpacificus*)	T/E/-	Resident	Endemic to the upper reaches of the San Francisco Bay Delta-Bay Estuary. Generally found in brackish water.	Low No suitable habitat present	Presumed absent.
Green sturgeon – southern DPS (*Acipenser medirostris* pop. 1)	T/-/-	February to September	Anadromous fish with spawning and juvenile rearing in rivers, followed by migration to salt water to feed and grow. They return to spawn every 3 to 5 years. Adult fish enter the SF Bay between mid-Feb and early May and migrate rapidly up the Sac. River. Spawning occurs in the upper Sac. River. During autumn, post spawn adults migrate back to the ocean.	Low No suitable habitat present	Presumed absent.
Hardhead (*Mylopharodon conocephalus*)	-/-/SSC	Resident	Low to mid-elevations in relatively undisturbed habitats of larger streams. They prefer pools and runs with deep, clear water, slow velocities, and sand-gravel-boulder substrates.	Low No suitable habitat present	Presumed absent.
Longfin smelt *(Spirinchus thaleichthys)*	C/ST/-	Resident	The historical and current range of the longfin smelt extends from Alaska southward to the San Francisco Bay-Delta in California, which includes the Delta, Suisun Marsh, San Pablo Bay, and the San Francisco Bay to the Golden Gate Bridge. The longfin smelt is a pelagic (lives in open water) estuarine fish that typically measures 3.5 to 4.3 inches standard length.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Steelhead – Central Valley DPS (*Oncorhynchus mykiss irideus* pop. 11)	T/-/-	Resident	Cool, clear, well-oxygenated water preferred. Prefer complex structured river systems with large boulders, etc.	Low No suitable habitat present	Presumed absent.
Amphibians					
California red-legged frog (*Rana draytonii*)	T/-/SSC	May 1 – November 1	Lowlands and foothills in or near permanent deep water with dense, shrubby or emergent riparian habitat. Requires 11-20 weeks of permanent water for breeding and larval development. Must have access to aestivation habitat.	Low No suitable habitat present	Presumed absent.
California tiger salamander (*Ambystoma californiense*)	T/T/-	Aquatic Surveys – Once each in March, April, and May with at least 10 days between surveys. Upland Surveys – 20 nights of surveying under proper conditions beginning October 15 and ending March 15.	Vernal pools, swales and depressions for breeding, needs underground refugia.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Western spadefoot (*Spea hammondii*)	-/-/SSC	Resident	Found primarily in grasslands, but also in valley-foothill hardwood woodlands. Breeding and egg-laying occur exclusively in vernal pools.	Low No suitable habitat present	Presumed absent.
Reptiles					
Giant gartersnake (*Thamnophis gigas*)	T/T/-	May 1 to October 1	Found in the Valley from the City of Chico, south to the Mendota Wildlife Area in Fresno County. Habitat includes marshes, sloughs, ponds, small lakes, low gradient streams, and other waterways and agricultural lands such as irrigation and drainage canals, rice fields, and the adjacent uplands.	Low No suitable habitat present	Presumed absent.
Northern California legless lizard *(Anniella pulchra)*	-/-/SSC	May be active all year.	This fossorial lizard is found primarily in areas with sandy or loose organic soils with plenty of leaf litter. They forage at the base of shrubs and other vegetation.	Low No suitable habitat present	Presumed absent.
Birds					
Burrowing owl (*Athene cunicularia*)	-/-/SCC	February – August	Dry open annual or perennial grassland, desert, and scrubland. Uses abandoned mammal burrows for nesting.	Low No mammal burrows observed on the Property.	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Cackling (=Aleutian Canada) goose (*Branta hutchinsii leucopareia*)	DL/-/WL	September – April	Aleutian geese are adapted to life on maritime islands. They all breed on remote islands, the Semidi geese roost in offshore islands on the Oregon Coast, and spring migrants roost on offshore islands in northwest California.	Low No suitable habitat present	Presumed absent.
California horned lark (*Eremophila alpestris actia*)	-/-/WL	Resident	Habitat consists of open areas dominated by sparse low herbaceous vegetation or widely scattered low shrubs. Nests in hollow on ground often next to grass tuft or clod of earth or manure.	Low Regular human disturbance would inhibit ground nesting	Presumed absent.
Least Bell's vireo (*Vireo bellii pusillus*)	E/E/-	8 surveys between April 10 and July 31	Structurally diverse riparian habitat, including cottonwood-willow forests, oak woodlands, and mule fat scrub.	Low No suitable habitat present	Presumed absent.
Loggerhead shrike (*Lanius ludovicianus*)	-/-/SSC	February – August	Open grassland habitats, grazed grasslands. Uses shrubs for nesting, such as willow thickets or riparian habitat in the San Joaquin Valley.	Low No suitable habitat present	Presumed absent.
Merlin (*Falco columbarius*)	-/-/WL	September – May	Frequents shorelines in winter and catches shorebirds. Does not breed in CA. Frequents open habitats at low elevation near water and tree stands.	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Song sparrow ("Modesto" population) (*Melospiza melodia*)	-/-/SSC	February – August	Prefer emergent freshwater marshes dominated by tules (*Scripus* spp.) and cattails (*Typha* spp.) as well as riparian willow (*Salix* spp.) thickets, and riparian forests of Valley Oak (*Quercus lobata*) with blackberry (*Rubus* spp.) understory.	Low No suitable habitat present	Presumed absent.
Swainson's hawk (*Buteo swainsoni*)	-/T/-	February – October	Nests in riparian areas and in oak savannah near foraging areas. Forages in alfalfa and grain fields with rodent populations.	Low No suitable habitat present	Presumed absent.
Tricolored blackbird (*Agelaius tricolor*)	-/T/SSC	February – August	Nesting within seasonal wetland marshes, blackberry brambles or other protected substrates. Forages in annual grassland and wetland habitats.	Low No suitable habitat present	Presumed absent.
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*)	T/E/-	June 15 – August 15	Wooded habitat with dense cover and water nearby, including woodlands with low, scrubby vegetation. Nests are often placed in willows along streams and rivers with nearby cottonwoods.	Low No suitable habitat present	Presumed absent.
White-tailed kite (*Elanus leucurus*)	-/-/FP	February – August	Various grassland habitats, urban land, oak woodlands with grassland for foraging.	Low Survey Area provides foraging habitat.	Not likely to occur.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Yellow-headed blackbird (*Xanthocephalus xathocephalus*)	-/-/SSC	February – August	Marshes with tall emergent vegetation such as tules (*Scripus* spp.) or cattails (*Typha* spp.) among edges and over relatively deep water.	Low No suitable habitat present	Presumed absent.
Mammals					
Pallid bat (*Antrozous pallidus*)	-/-/SSC	N/A	Forages in grasslands, shrublands, deserts, forests, and woodlands. Most common in open, dry habitats. Roosts in rock crevices, caves, tree hollows, and buildings. Roosts must protect bats from high temperatures; very sensitive to disturbance of roosting sites.	Low Survey Area contains foraging habitat.	Not likely to Occur.
Riparian (=San Joaquin Valley) woodrat (*Neotoma fuscipes riparia*)	E/-/SSC	Resident	Prefer habitat with large amount of overall structure, with both understory and overstory cover. Most often observed in areas with an oak (*Quercus*) overstory and an understory of wild grape (*Vitus californica*), willow (*Salix* spp.), blackberry (*Rubus* spp.), wild rose (*Rosa californica*), or coyote bush (*Baccharis pilularis*).	Low No suitable habitat present	Presumed absent.

Table 2

Special-Status Species for the Manteca, Avena, Peters, Lathrop, Stockton West, Stockton East, Salida, Vernalis, and Ripon 7.5 Minute Quadrangle Maps[1]

Common Name/Scientific Name	Status (Fed/State/ CNPS or CDFW)[2]	Blooming or Survey Period	Habitats of Occurrence	Potential on Site	Status on Site**
Riparian brush rabbit (*Sylvilagus bachmani riparius*)	E/E/-	Resident	Restricted to native riparian habitat along the San Joaquin River and its tributaries. Typically found among old-growth riparian forests dominated by Valley oak (*Quercus lobata*) with a thick understory and riparian communities dominated by willows (*Salix* spp.) with blackberry (*Rubus* spp.) and wild rose (*Rosa californica*).	Low No suitable habitat present	Presumed absent.

1. Special-status plants and animals as reported by the California Natural Diversity Data Base, California Native Plant Society, and other background research June 2022.
2. Order of Codes for Plants - Fed/State/CNPS
   Order of Codes for Animals - Fed/State/CDFW

Codes:
SSC - California Species of Special Concern
E - Federally/State Listed as an Endangered Species
T - Federally/State Listed as a Threatened Species
C – Species listed as a Candidate for federally listing
CE - Species listed as a Candidate for Endangered Status
CT – Species listed as a Candidate for Threatened Status
FP - State Fully Protected
1B - California Native Plant Society considers the plant Rare, Threatened, or Endangered in California and elsewhere.
2B - CNPS Plants Rare, Threatened or Endangered in California, but more common elsewhere.
– Seriously threatened in California.
– Moderately threatened in California.
– Plants about which more information is needed.

ATTACHMENT 3

SITE PHOTOGRAPH



1. Photo point #1 facing east, looking down the length of the canal feature from the southwest corner of the Survey Area.



2. Photo point #2 facing east, the sparsely vegetated, dry bed and bank are evident in the photo.



3. Photo point #3 facing west near the middle of the Survey Area.



4. Photo point #4 facing east near the middle of the Survey Area.



5. Photo point #5 facing west, near the northeast corner of the Survey Area. There was some stagnant water at the very east end of the canal feature.



6. Photo point #6 looking down at some Pacific chorus frog tadpoles within the shallow water.

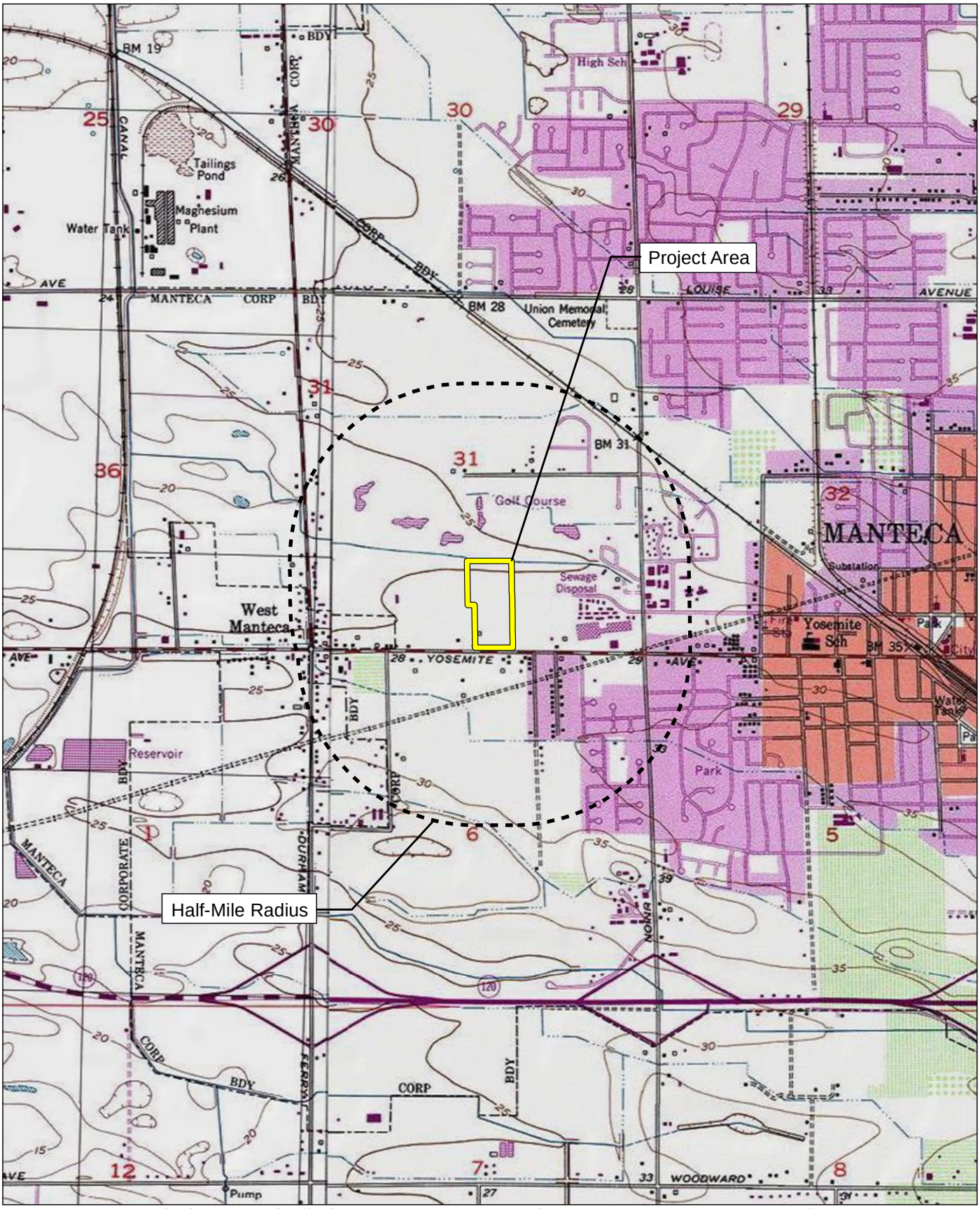
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Appendix C:
Cultural Resources Assessment

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C.1 - Record Search and Report

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Source: USGS Manteca and Lathrop 7.5' Quadrangles / T01S,R06E,sec36; T01S,R07E,sections 31, 32; T02S,R06E,sec 1; T02S,R07E,sections 5, 6.

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Record Search Map

45880003 • 01/2022 | 45880003_record_search.mxd

ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

CENTRAL CALIFORNIA INFORMATION CENTER

California Historical Resources Information System

Department of Anthropology – California State University, Stanislaus
One University Circle, Turlock, California 95382
(209) 667-3307

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

Date: 2/16/2022

Records Search File No.: 12081L
Access Agreement: #37
Project: Prose Manteca Project, 4588.0003, 1563 and 1625 West Yosemite Avenue

Dr. Dana DePietro
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597
530-219-1432 ddepietro@fcs-intl.com

Invoice email: ap@fcs-intl.com

Dear Dr. DePietro:

The Central California Information Center received your **Priority Response** record search request for the project area referenced above, located on the Lathrop and Manteca 7.5' quadrangles in San Joaquin County. The following reflects the results of the records search for the project study area and radius:

As per data currently available at the CCaIC, the locations of resources/reports are provided in the following format: ☒ custom GIS maps ☐ GIS Data/shape files ☐ hand-drawn maps

Summary Data:

Resources within the project area:	None formally reported to the Information Center.
Resources within the ½-mile radius:	12: P-39-005337, 5400, 5423, 5424, 5425, 5426, 5427, 5428, 5429, 5430, 5431, 5432
Reports within the project area:	3: SJ-00729, 4786, 5309
Reports within the ½-mile radius:	9: SJ-03995, 4896, 5840, 6149, 6345, 6625, 6739, 9234, 9252

Resource Database Printout (list): ☒ enclosed ☐ not requested ☐ nothing listed

Resource Database Printout (details): ☒ enclosed ☐ not requested ☐ nothing listed

Resource Digital Database Records: ☐ enclosed ☒ not requested ☐ nothing listed

Report Database Printout (list): ☒ enclosed ☐ not requested ☐ nothing listed

Report Database Printout (details): ☒ enclosed ☐ not requested ☐ nothing listed

Report Digital Database Records: ☐ enclosed ☒ not requested ☐ nothing listed

Resource Record Copies: ☒ enclosed ☐ not requested ☐ nothing listed

Report Copies: ☒ enclosed ☐ not requested ☐ nothing listed

OHP Historic Properties Directory: New Excel File: Built Environment Resource Directory (BERD) Dated 11/17/2021

Not all resources listed in the BERD are mapped in GIS, nor do we have records on file for; if you identify additional resources in the BERD that you need copies of, contact the IC.

☒ enclosed ☐ not requested ☒ nothing listed

Archaeological Determinations of Eligibility: ☐ enclosed ☐ not requested ☒ nothing listed

CA Inventory of Historic Resources (1976): ☐ enclosed ☐ not requested ☒ nothing listed

Caltrans Bridge Survey: ☒ enclosed ☐ not requested ☐ nothing listed

Ethnographic Information: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Literature: ☐ enclosed ☒ not requested ☐ nothing listed

Historical Maps: ☒ enclosed ☐ not requested ☐ nothing listed

Lathrop 7.5' (1915, 1952)
Manteca 7.5' (1914, 1952)
Map of the County of San Joaquin, California (1883)

Local Inventories: ☐ enclosed ☐ not requested ☒ nothing listed

GLO and/or Rancho Plat Maps: ☒ enclosed ☐ not requested ☐ nothing listed

T1S R6E/7E T2S R6E/7E

Shipwreck Inventory: ☒ not available at CCIC; please go to http://shipwrecks.slc.ca.gov/ShipwrecksDatabase/Shipwrecks_Database.asp

Soil Survey Maps: ☒ not available at CCIC; please go to

http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California,

Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

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

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

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

Note: Billing will be transmitted separately via email by our Financial Services office *($800.32), payable within 60 days of receipt of the invoice.

If you wish to include payment by Credit Card, you must wait to receive the official invoice from Financial Services so that you can reference the CMP # (Invoice Number), and then contact the link below:

https://commerce.cashnet.com/ANTHROPOLOGY

Sincerely,

E. A. Greathouse

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

* Invoice Request sent to: ARBilling@csustan.edu, CSU Stanislaus Financial Services

Resource List

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-39-005337		Resource Name - Tesla-Salado-Manteca 115 kV Transmission Line	Structure	Historic	HP11	2017 (M. Walker, Cardno, Inc., for PG&E)	SJ-09022
P-39-005400		Resource Name - SAS-004; 495 N. Airport Way	Building	Historic	HP02; HP33	2019 (Coleman et al., Solano Archaeological Services)	SJ-09234
P-39-005423		Resource Name - 2110 W. Yosemite Ave.	Site	Historic	AH02	2018 (Falke, LSA)	SJ-09252
P-39-005424		Resource Name - 223 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005425		Resource Name - 251 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005426		Resource Name - 262 & 264 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005427		Resource Name - 273 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005428		Resource Name - 334 S. Airport Way	Building	Historic	HP03	2018 (Vallaire, LSA)	SJ-09252
P-39-005429		Resource Name - 358 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005430		Resource Name - 400 & 402 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005431		Resource Name - 422 S. Airport Way	Building	Historic	HP02	2018 (Vallaire, LSA)	SJ-09252
P-39-005432		Resource Name - 444 & 450 S. Airport Way	Building	Historic	HP03	2018 (Vallaire, LSA)	SJ-09252

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SJ-00729	NADB-R - 1361539	1981	Chavez, D.	Cultural Resource Evaluation for the Manteca Wastewater Project, San Joaquin County, California.	David Chavez, Consulting Archaeologist; for James M. Montgomery Consulting Engineers, Inc.	
SJ-03995	NADB-R - 1366235	2000	Nelson, W. J.	Cultural Resource Survey for the Level (3) Communications Long Haul Fiber Optics Project; Segment WS04: Sacramento to Bakersfield	Far Western Anthropological Research Group, Inc.; for Parsons, Brinckerhoff Network Services	39-000002, 39-000354, 50-000001, 50-000439
SJ-04786	NADB-R - 1364725	2002	Windmiller, Ric and Donald Napoli	City of Manteca--General Plan Update, Background Reports: Archaeological Resources, Historical Resources, Records Search Results.	Ric Windmiller, Consulting Archaeologist (and) Donald Napoli, of Historic Preservation Planning; for Wade Associates, Sacramento, CA	39-000002, 39-000015, 39-000098, 39-000099, 39-000102, 39-000103, 39-000111, 39-000282, 39-000354, 39-000681, 39-000682, 39-000683, 39-000684, 39-004148, 39-004188, 39-004189, 39-004190, 39-004191, 39-004192
SJ-04896	NADB-R - 1364809	2003	Windmiller, R. and D. Napoli	Airport Way-Yosemite Avenue Specific Plan, Background Reports: Archaeological Resources, Historical Resources, Records Search Results.	R. Windmiller	
SJ-04896A		2003	Napoli, D.	Airport Way-Yosemite Avenue Specific Plan; Background Report on Historical Resouces	Historic Preservation Planning	
SJ-04896B		2003	Windmiller, R.	Airport Way-Yosemite Avenue Specific Plan; Appendix: Records Search Results Archaelogical and Historic Resources	Consulting Archaeologist	
SJ-05309	NADB-R - 1365195	2004	Baloian, M., R. Baloian, and W. Nettles	Cultural Resources Investigations for the South San Joaquin Irrigation District in San Joaquin County, California.	Applied Earthworks, Inc.; prepared for Russell Associates, Palo Alto, CA	39-000002, 39-000015, 39-000098, 39-000099, 39-000103, 39-000354, 39-004400, 39-004401, 39-004402, 39-004403, 39-004404, 39-004405, 39-004406, 39-004407, 39-004408, 39-004409, 39-004410, 39-004411, 39-004412, 39-004413, 39-004414, 39-004415, 39-004416, 39-004417
SJ-05840	NADB-R - 1365703	2004	Busby, C.	Letter Report: Archaeological Resources--Manteca Properties (9-Parcel Project Area).	Basin Research Associates	
SJ-06149	NADB-R - 1366324; Other - Swanson; CA-3323C	2006	Billat, L.	New Tower Submission Packet, FCC Form 620; Swanson, CA-3323C, Manteca, San Joaquin County, California	Earthtouch Inc.	

Report List

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SJ-06345	NADB-R - 1366576	2006	SWCA Environmental Consultants	Cultural Resources Final Report of Monitoring and Findings for the QWest Network Construction Project, State of California. SWCA Project No. 10715-180.	SWCA Environmental Consultants, for Qwest Communications	39-000002, 39-000354
SJ-06625	NADB-R - 1367290	1998	ASI Archaeology and Cultural Resource Management	Cultural Resources Survey, South County Surface Water Project, San Joaquin County, California, South San Joaquin Irrigation District	ASI Archaeology and Cultural Resource Management (prepared for Environmental Science Associates, Inc.)	39-000002, 39-000098, 39-000129, 39-000317, 39-000531, 39-000548, 50-000001
SJ-06739	NADB-R - 1366971	2005	Hooks, C.	New Tower ("NT") Submission Packet FCC Form 620 Cabral Motors SC13354, 1145 w. Yosemite Avenue Manteca	PES LLC	
SJ-09234		2019	Coleman, J. A.	Cultural Resources Technical Memorandum: Cultural Resources Study - Exeter Industrial Development Project, City of Manteca, San Joaquin County, California	Solano Archaeological Services for BaseCamp Environmental, Inc.	39-000103, 39-005397, 39-005398, 39-005399, 39-005400, 39-005401
SJ-09252		2018	Vallaire, K., Sanchez, R., and Falke, M.	Cultural Resources Study, Airport Way Widening Project, Manteca, San Joaquin County, California	LSA for the City of Manteca	39-005415, 39-005416, 39-005417, 39-005418, 39-005419, 39-005420, 39-005421, 39-005422, 39-005423, 39-005424, 39-005425, 39-005426, 39-005427, 39-005428, 39-005429, 39-005430, 39-005431, 39-005432, 39-005433

C.2 - Pedestrian Survey Photographs–Prose Manteca

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Photograph 1: Overview from the southwest corner of the proposed residential project; facing northeast (March 8, 2022).



Photograph 2: Overview from the northwest corner of the proposed residential project; facing southeast (March 8, 2022).



Photograph 3: Overview from the northeast corner of the proposed residential project; facing southwest (March 8, 2022).



Photograph 4: Overview from the southeast corner of the proposed residential project; facing northwest (March 8, 2022).



Photograph 5: Representative soil composition in the southern portion of the proposed residential project (March 8, 2022).



Photograph 6: Service well 1 in the north portion of the proposed residential project; facing west (March 8, 2022).



Photograph 7: Service well 2 in the north portion of the proposed residential project; facing west (March 8, 2022).



Photograph 8: Service well 3 in the north portion of the proposed residential project; facing south (March 8, 2022).



Photograph 9: Service well 4 in the north portion of the proposed residential project; facing south (March 8, 2022).



Photograph 10: Overview from the southeast corner of the proposed residential project; facing northwest (June 15, 2022).



Photograph 11: Representative soil composition in the southern portion of the proposed residential project (June 15, 2022).



Photograph 12: Overview from the northeast corner of the proposed residential project; facing southwest (June 15, 2022).



Photograph 13: Service well 3 in the north portion of the proposed residential project; facing north (June 15, 2022).



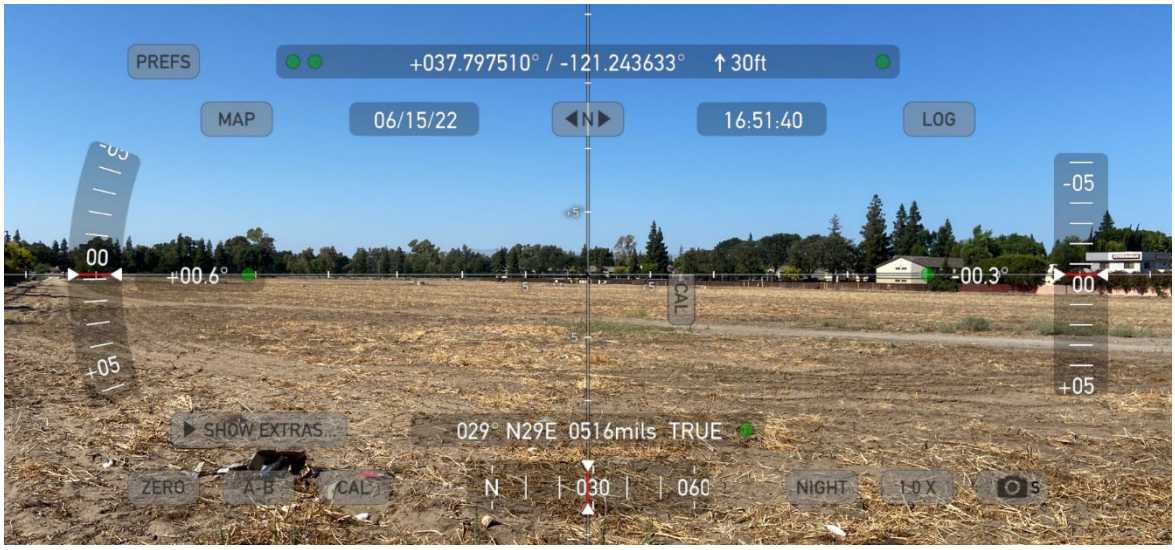
Photograph 14: Service well 2 in the north portion of the proposed residential project; facing north (June 15, 2022).



Photograph 15: Service well 1 in the north portion of the proposed residential project; facing south (June 15, 2022).



Photograph 16: Service well 4 in the north portion of the proposed residential project; facing south (June 15, 2022).



Photograph 17: Overview from the southwest corner of the proposed residential project; facing northeast (June 15, 2022).



Photograph 18: Overview from the northwest corner of the proposed residential project; facing southeast (June 15, 2022).



Photograph 19: Overview of the western portion of the proposed Drain No. 5 off-site improvements site; facing east (June 15, 2022).



Photograph 20: Overview of the western portion of the proposed Drain No. 5 off-site improvements site; facing east (June 15, 2022).



Photograph 21: Overview of the eastern portion of the proposed Drain No. 5 off-site improvements site; facing east (June 15, 2022).



Photograph 22: Overview of the eastern portion of the proposed Drain No. 5 off-site improvements site; facing south (June 15, 2022).



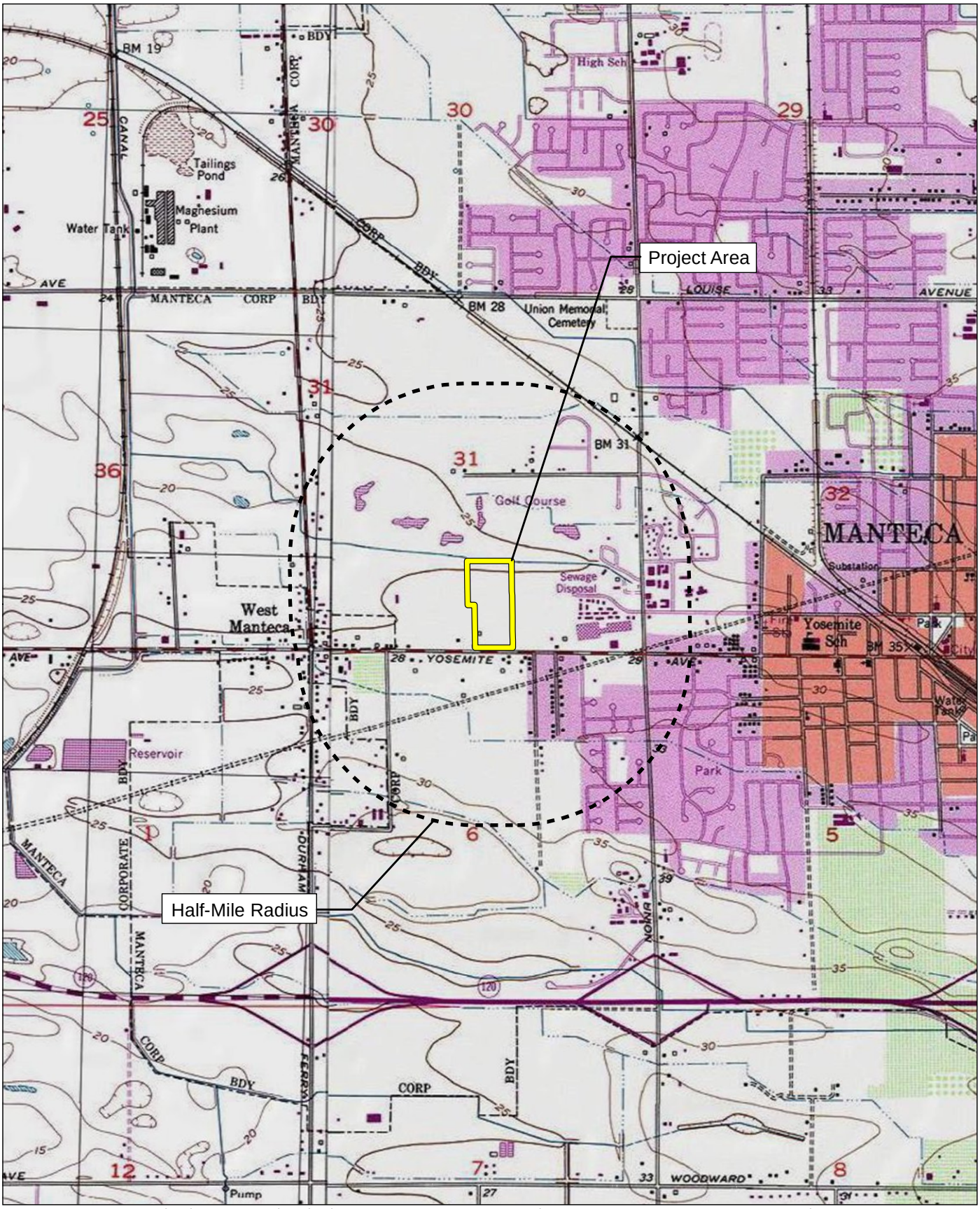
Photograph 23: Overview of the eastern portion of the proposed Drain No. 5 off-site improvements site; facing west (June 15, 2022).



Photograph 24: Overview of the western portion of the proposed Drain No. 5 off-site improvements site; facing southwest (June 15, 2022).

C.3 - NAHC Record Search Results Letters and Correspondence

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Source: USGS Manteca and Lathrop 7.5' Quadrangles / T01S,R06E,sec36; T01S,R07E,sections 31, 32; T02S,R06E,sec 1; T02S,R07E,sections 5, 6.

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Record Search Map

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NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
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Chumash

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Yokayo Pomo, Yuki, Nomlaki

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Wayne Nelson
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Stanley Rodriguez
Kumeyaay

EXECUTIVE SECRETARY
Christina Snider
Pomo

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

March 24, 2022

Dr. Dana DePietro
FirstCarbon Solutions

Via Email to: ddepietro@fcs-intl.com

Re: Native American Tribal Consultation, Pursuant to the Assembly Bill 52 (AB 52), Amendments to the California Environmental Quality Act (CEQA) (Chapter 532, Statutes of 2014), Public Resources Code Sections 5097.94 (m), 21073, 21074, 21080.3.1, 21080.3.2, 21082.3, 21083.09, 21084.2 and 21084.3, Prose Manteca Project, San Joaquin County

Dear Dr. DePietro:

Pursuant to Public Resources Code section 21080.3.1 (c), attached is a consultation list of tribes that are traditionally and culturally affiliated with the geographic area of the above-listed project. Please note that the intent of the AB 52 amendments to CEQA is to avoid and/or mitigate impacts to tribal cultural resources, (Pub. Resources Code §21084.3 (a)) ("Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.")

Public Resources Code sections 21080.3.1 and 21084.3(c) require CEQA lead agencies to consult with California Native American tribes that have requested notice from such agencies of proposed projects in the geographic area that are traditionally and culturally affiliated with the tribes on projects for which a Notice of Preparation or Notice of Negative Declaration or Mitigated Negative Declaration has been filed on or after July 1, 2015. Specifically, Public Resources Code section 21080.3.1 (d) provides:

Within 14 days of determining that an application for a project is complete or a decision by a public agency to undertake a project, the lead agency shall provide formal notification to the designated contact of, or a tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, which shall be accomplished by means of at least one written notification that includes a brief description of the proposed project and its location, the lead agency contact information, and a notification that the California Native American tribe has 30 days to request consultation pursuant to this section.

The AB 52 amendments to CEQA law does not preclude initiating consultation with the tribes that are culturally and traditionally affiliated within your jurisdiction prior to receiving requests for notification of projects in the tribe's areas of traditional and cultural affiliation. The Native American Heritage Commission (NAHC) recommends, but does not require, early consultation as a best practice to ensure that lead agencies receive sufficient information about cultural resources in a project area to avoid damaging effects to tribal cultural resources.

The NAHC also recommends, but does not require that agencies should also include with their notification letters, information regarding any cultural resources assessment that has been completed on the area of potential effect (APE), such as:

1. The results of any record search that may have been conducted at an Information Center of the California Historical Resources Information System (CHRIS), including, but not limited to:

- A listing of any and all known cultural resources that have already been recorded on or adjacent to the APE, such as known archaeological sites;
- Copies of any and all cultural resource records and study reports that may have been provided by the Information Center as part of the records search response;
- Whether the records search indicates a low, moderate, or high probability that unrecorded cultural resources are located in the APE; and
- If a survey is recommended by the Information Center to determine whether previously unrecorded cultural resources are present.

2. The results of any archaeological inventory survey that was conducted, including:

    - Any report that may contain site forms, site significance, and suggested mitigation measures.

      All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum, and not be made available for public disclosure in accordance with Government Code section 6254.10.

3. The result of any Sacred Lands File (SLF) check conducted through the Native American Heritage Commission was positive. Please contact the North Valley Yokuts Tribe on the attached list for more information.

4. Any ethnographic studies conducted for any area including all or part of the APE; and

5. Any geotechnical reports regarding all or part of the APE.

Lead agencies should be aware that records maintained by the NAHC and CHRIS are not exhaustive and a negative response to these searches does not preclude the existence of a tribal cultural resource. A tribe may be the only source of information regarding the existence of a tribal cultural resource.

This information will aid tribes in determining whether to request formal consultation. In the event that they do, having the information beforehand will help to facilitate the consultation process.

If you receive notification of change of addresses and phone numbers from tribes, please notify the NAHC. With your assistance, we can assure that our consultation list remains current.

If you have any questions, please contact me at my email address: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Tribal Consultation List
San Joaquin County
3/24/2022

Buena Vista Rancheria of Me-Wuk Indians
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200 — Me-Wuk
Sacramento, CA, 95811
Phone: (916) 491 - 0011
Fax: (916) 491-0012
rhonda@buenavistatribe.com

Ione Band of Miwok Indians
Sara Dutschke, Chairperson
9252 Bush Street — Miwok
Plymouth, CA, 95669
Phone: (209) 245 - 5800
consultation@ionemiwok.net

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano, Vice Chairwoman
20885 Redwood Road, Suite 232 — Costanoan
Castro Valley, CA, 94546
Phone: (408) 205 - 9714
marellano@muwekma.org

Muwekma Ohlone Indian Tribe of the SF Bay Area
Charlene Nijmeh, Chairperson
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Castro Valley, CA, 94546
Phone: (408) 464 - 2892
cnijmeh@muwekma.org

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 887 - 3415 — Yokut
canutes@verizon.net

North Valley Yokuts Tribe
Timothy Perez,
P.O. Box 717 — Costanoan
Linden, CA, 95236 — Northern Valley
Phone: (209) 662 - 2788 — Yokut
huskanam@gmail.com

Tule River Indian Tribe
Neil Peyron, Chairperson
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Porterville, CA, 93258
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Fax: (559) 781-4610
neil.peyron@tulerivertribe-nsn.gov

Wilton Rancheria
Jesus Tarango, Chairperson
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Fax: (916) 683-6015
jtarango@wiltonrancheria-nsn.gov

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Dahlton Brown, Director of Administration
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Wuksache Indian Tribe/Eshom Valley Band
Kenneth Woodrow, Chairperson
1179 Rock Haven Ct. — Foothill Yokut
Salinas, CA, 93906 — Mono
Phone: (831) 443 - 9702
kwood8934@aol.com

The Confederated Villages of Lisjan
Corrina Gould, Chairperson
10926 Edes Avenue — Bay Miwok
Oakland, CA, 94603 — Ohlone
Phone: (510) 575 - 8408 — Delta Yokut
cvltribe@gmail.com

This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and section 5097.98 of the Public Resources Code.

This list is only applicable for consultation with Native American tribes under Public Resources Code Sections 21080.3.1 for the proposed Prose Manteca Project, San Joaquin County.

March 28, 2022

Muwekma Ohlone Indian Tribe of the SF Bay Area
Monica Arellano, Vice Chairwoman
20885 Redwood Road, Suite 232
Castro Valley, CA, 94546

Subject: Proposed Prose Manteca Project

Dear Vice Chairwoman Arellano:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

A Records Search map with a 0.5 mile buffer around the site is enclosed for your reference.

As part of the cultural resources assessment, FCS conducted a Sacred Lands File (SLF) search and California Historical Resource Information System (CHRIS). The results of the SLF records search was positive. The CHRIS search showed that there are no recorded resources within the project site. However, 12 cultural resources were recorded within a 0.5 mile radius of the project site. Furthermore, the CHRIS search found 3 recorded reports within the project site and 9 recorded reports within a 0.5 mile radius of the project site. The Native American Heritage Commission (NAHC) suggested you might be able to provide further information. If you have any additional information regarding potential historic or cultural resources in proximity or relation to the proposed project area, we would greatly appreciate your input.

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Sincerely,

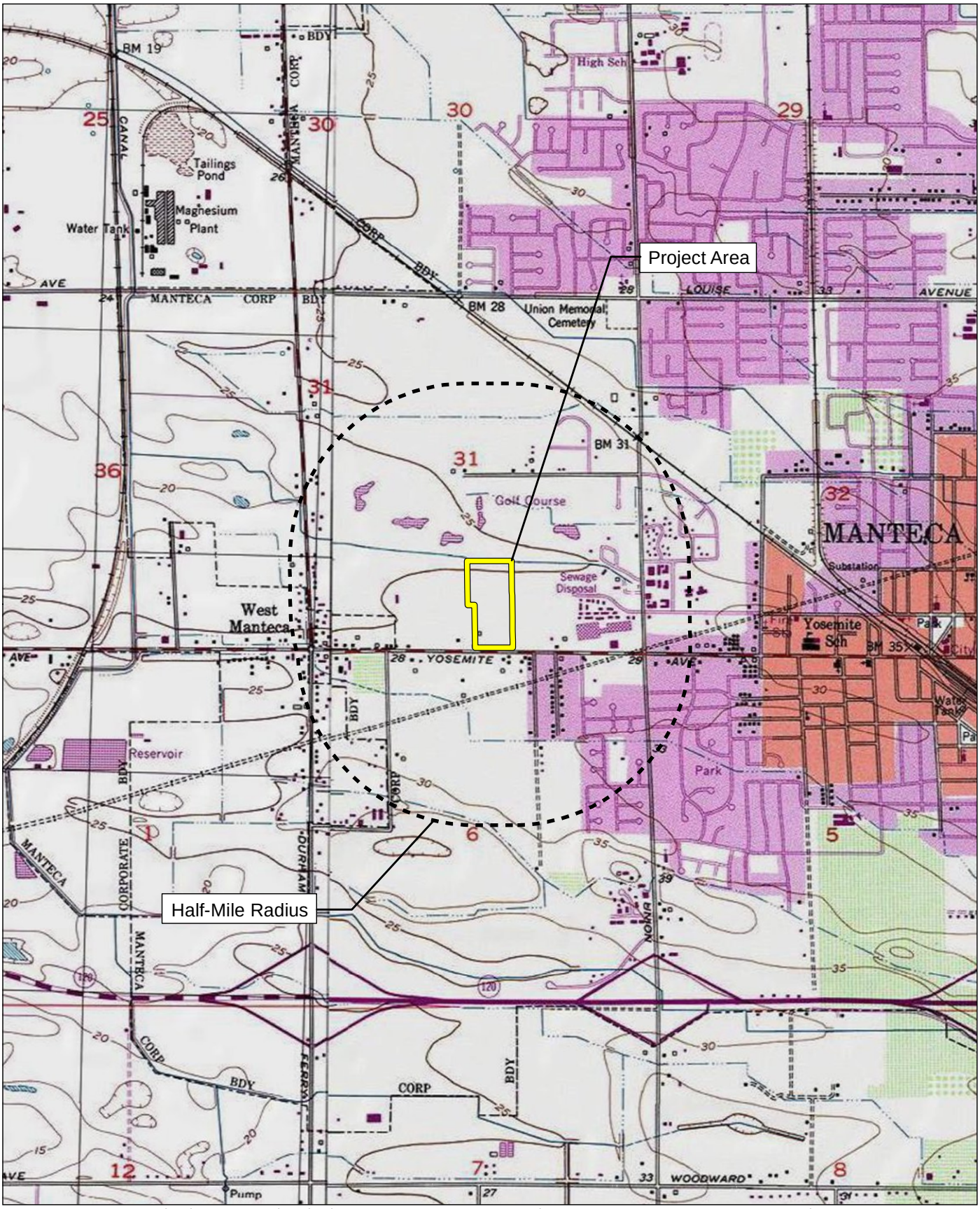


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

Enc: Attachment A: Records Search Map

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Attachment A:
Records Search Map



Source: USGS Manteca and Lathrop 7.5' Quadrangles / T01S,R06E,sec36; T01S,R07E,sections 31, 32; T02S,R06E,sec 1; T02S,R07E,sections 5, 6.

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Wilton Rancheria
Dahlton Brown, Director of Administration
9728 Kent Street
Elk Grove, CA, 95624

Subject: Proposed Prose Manteca Project

Dear Dahlton Brown:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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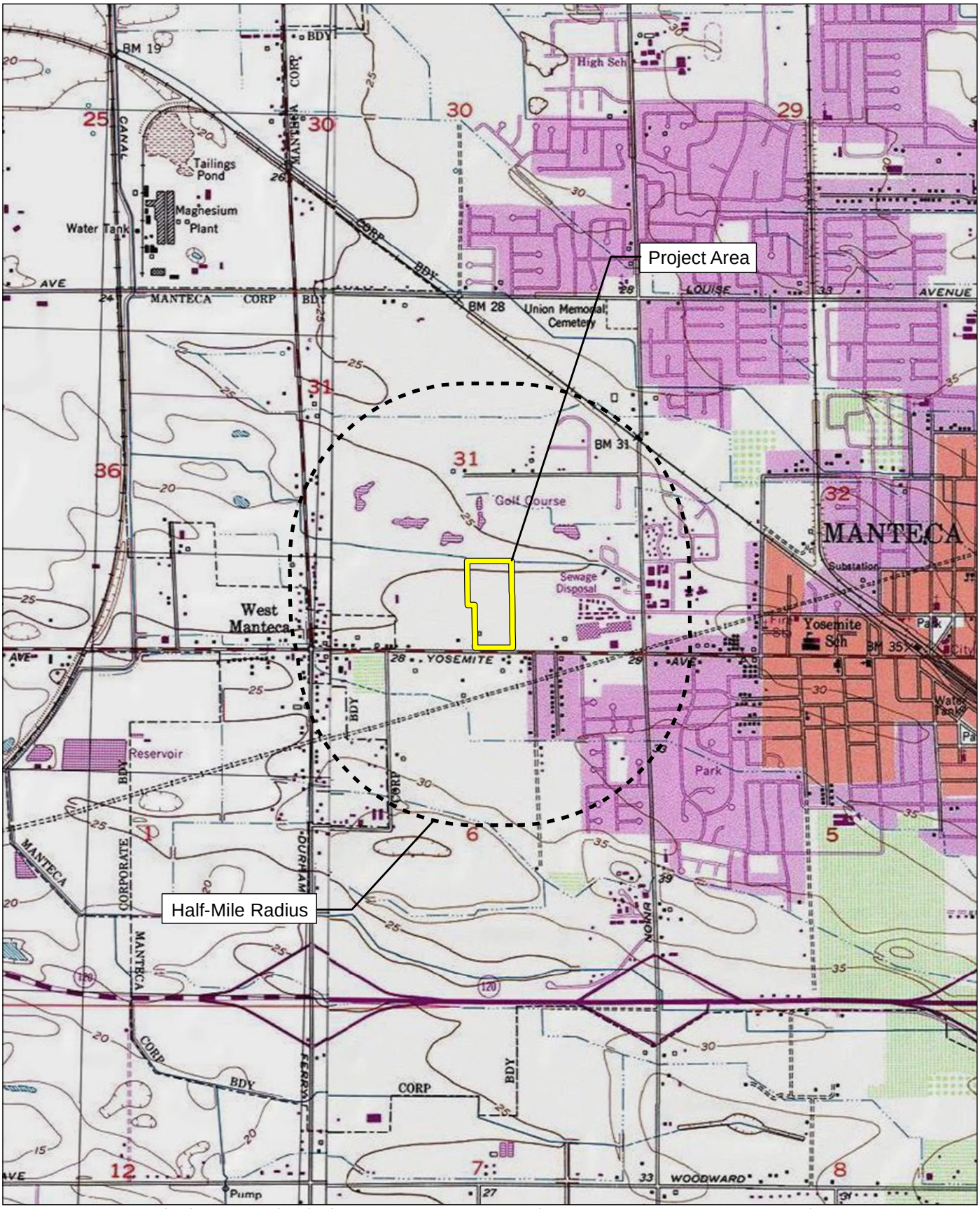


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Ione Band of Miwok Indians
Sara Dutschke, Chairperson
9252 Bush Street
Plymouth, CA, 95669

Subject: Proposed Prose Manteca Project

Dear Chairperson Dutschke:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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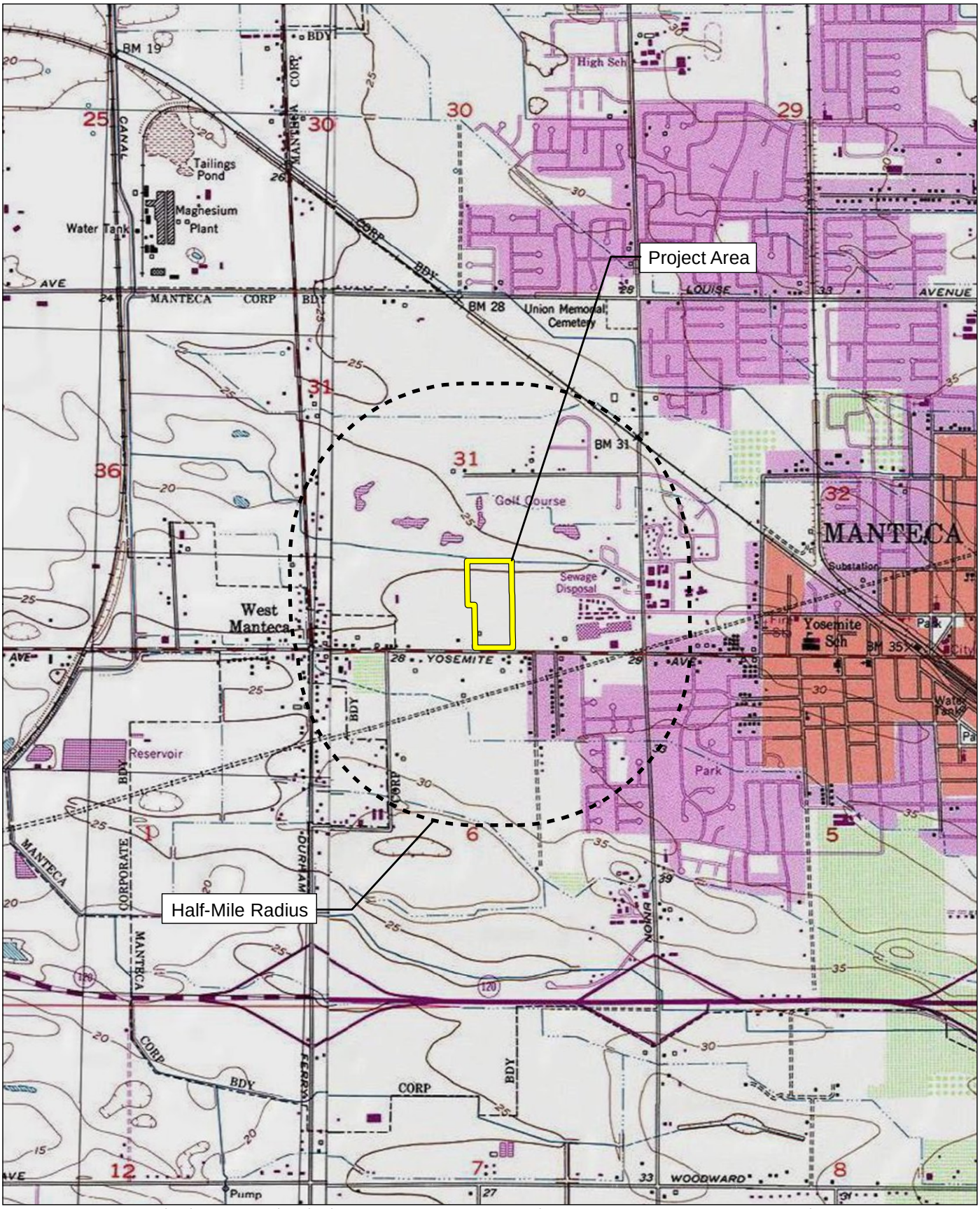


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

Enc: Attachment A: Records Search Map

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Wilton Rancheria
Steven Hutchason, THPO
9728 Kent Street
Elk Grove, CA, 95624

Subject: Proposed Prose Manteca Project

Dear Steven Hutchason:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

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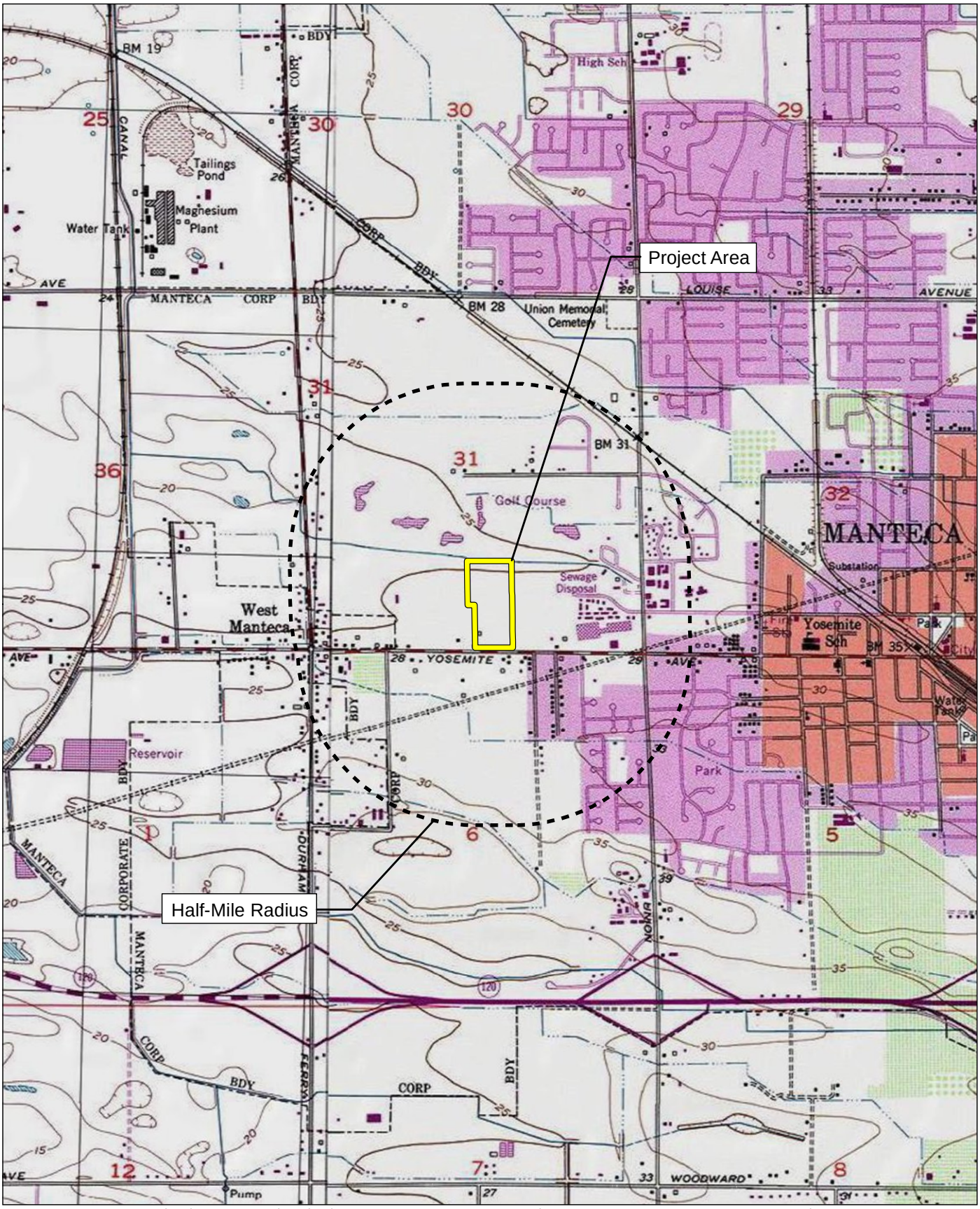


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Director of Cultural Resources
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1350 Treat Boulevard, Suite 380
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Enc: Attachment A: Records Search Map

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Muwekma Ohlone Indian Tribe of the SF Bay Area
Charlene Nijmeh, Chairperson
20885 Redwood Road, Suite 232
Castro Valley, CA, 94546

Subject: Proposed Prose Manteca Project

Dear Chairperson Nijmeh:

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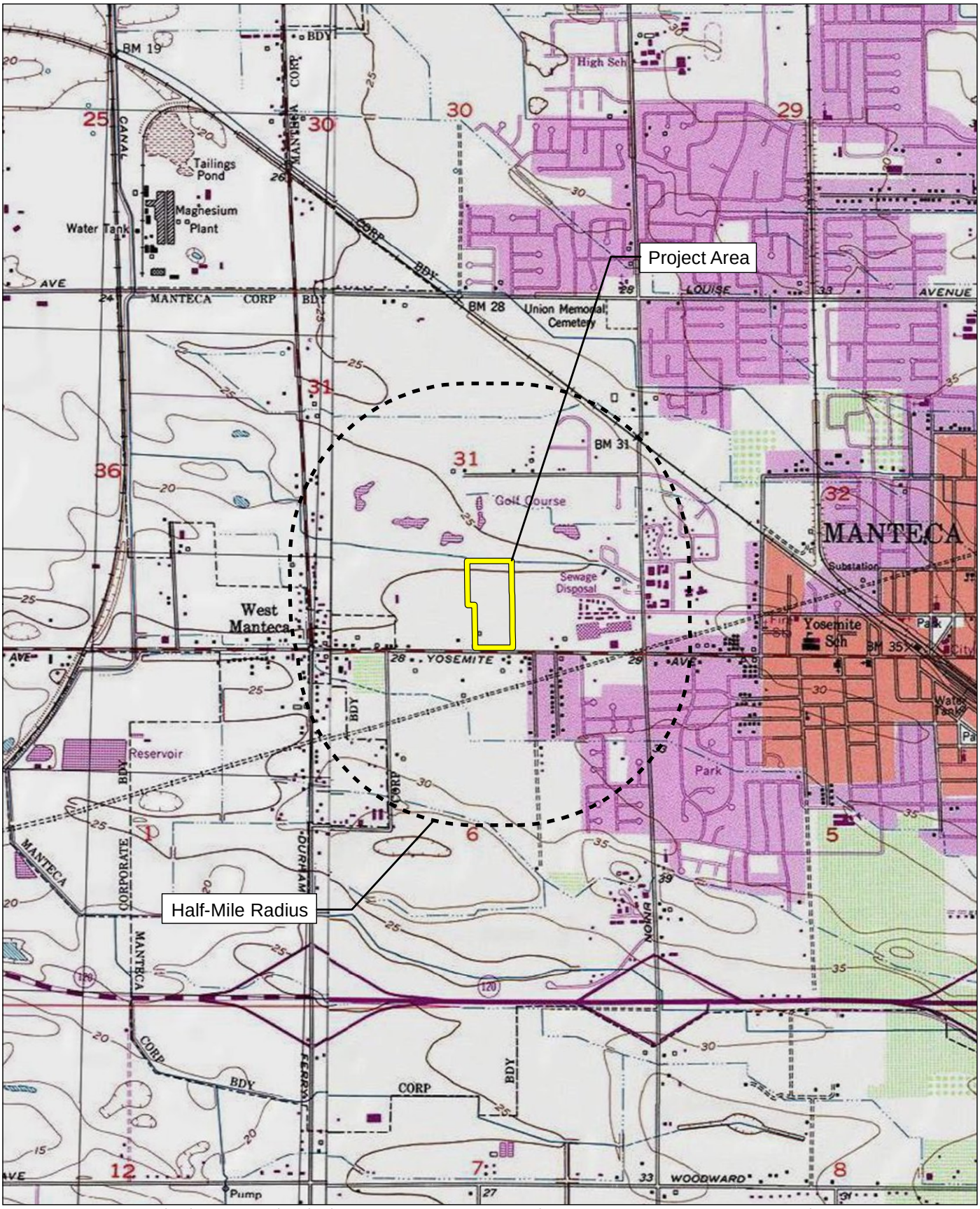


Dana Douglas DePietro, PhD
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FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
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Enc: Attachment A: Records Search Map

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

North Valley Yokuts Tribe
Katherine Perez, Chairperson
P.O. Box 717
Linden, CA, 95236

Subject: Proposed Prose Manteca Project

Dear Chairperson Perez:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

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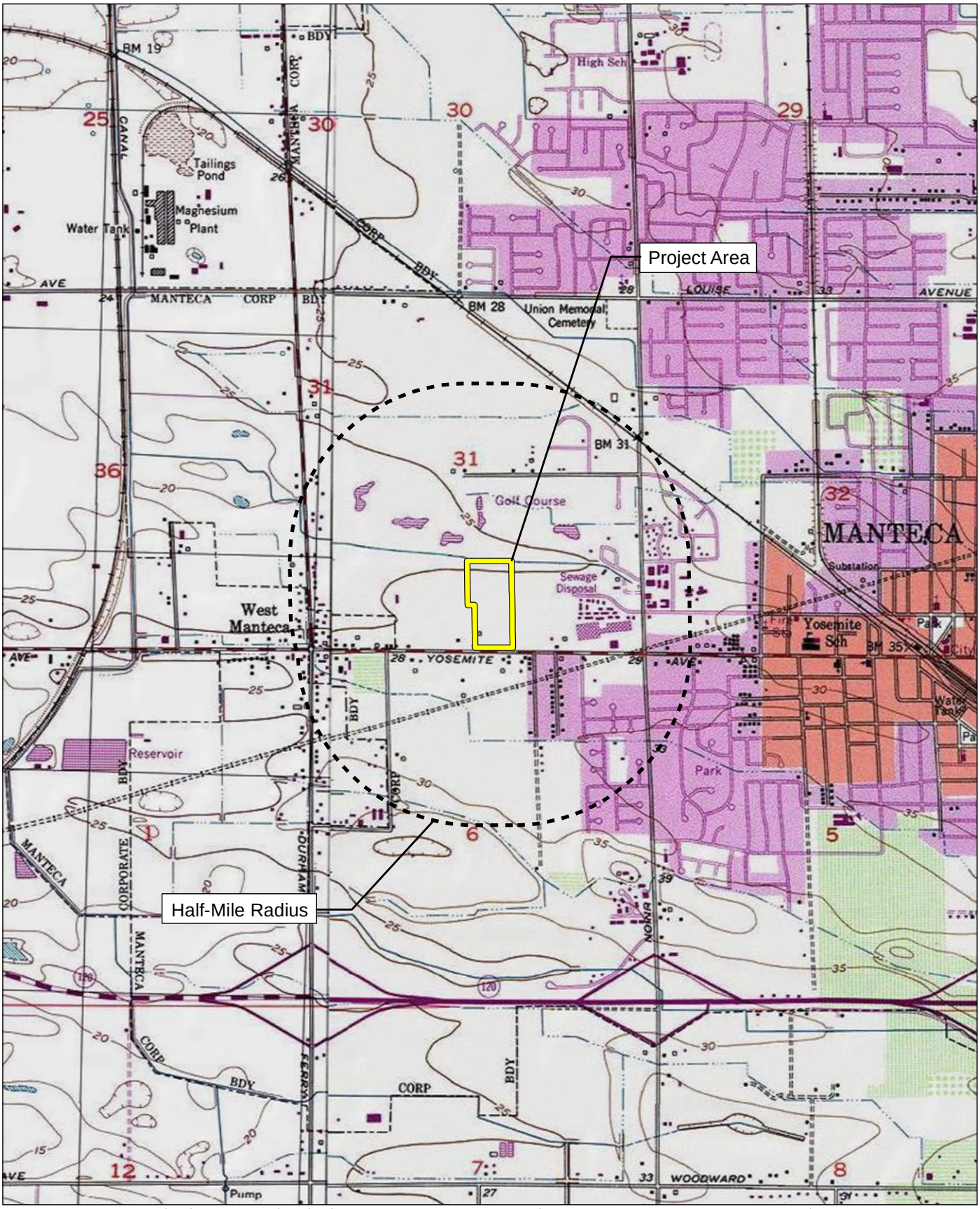


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1350 Treat Boulevard, Suite 380
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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Tule River Indian Tribe
Neil Peyron, Chairperson
P.O. Box 589
Porterville, CA, 93258

Subject: Proposed Prose Manteca Project

Dear Chairperson Peyron:

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Sincerely,

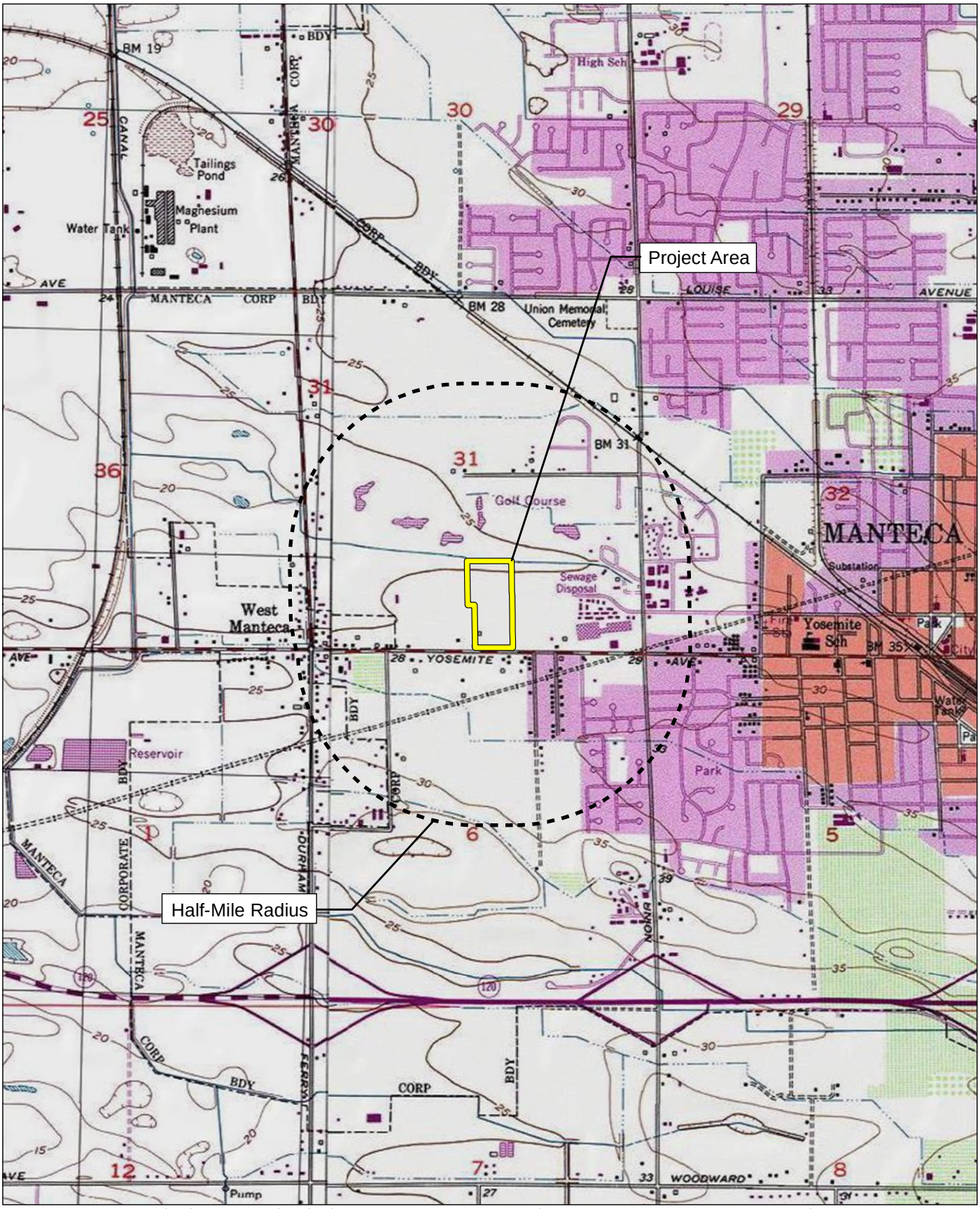


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

Enc: Attachment A: Records Search Map

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Records Search Map



Source: USGS Manteca and Lathrop 7.5' Quadrangles / T01S,R06E,sec36; T01S,R07E,sections 31, 32; T02S,R06E,sec 1; T02S,R07E,sections 5, 6.

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Buena Vista Rancheria of Me-Wuk Indians
Rhonda Morningstar Pope, Chairperson
1418 20th Street, Suite 200
Sacramento, CA, 95811

Subject: Proposed Prose Manteca Project

Dear Chairperson Pope:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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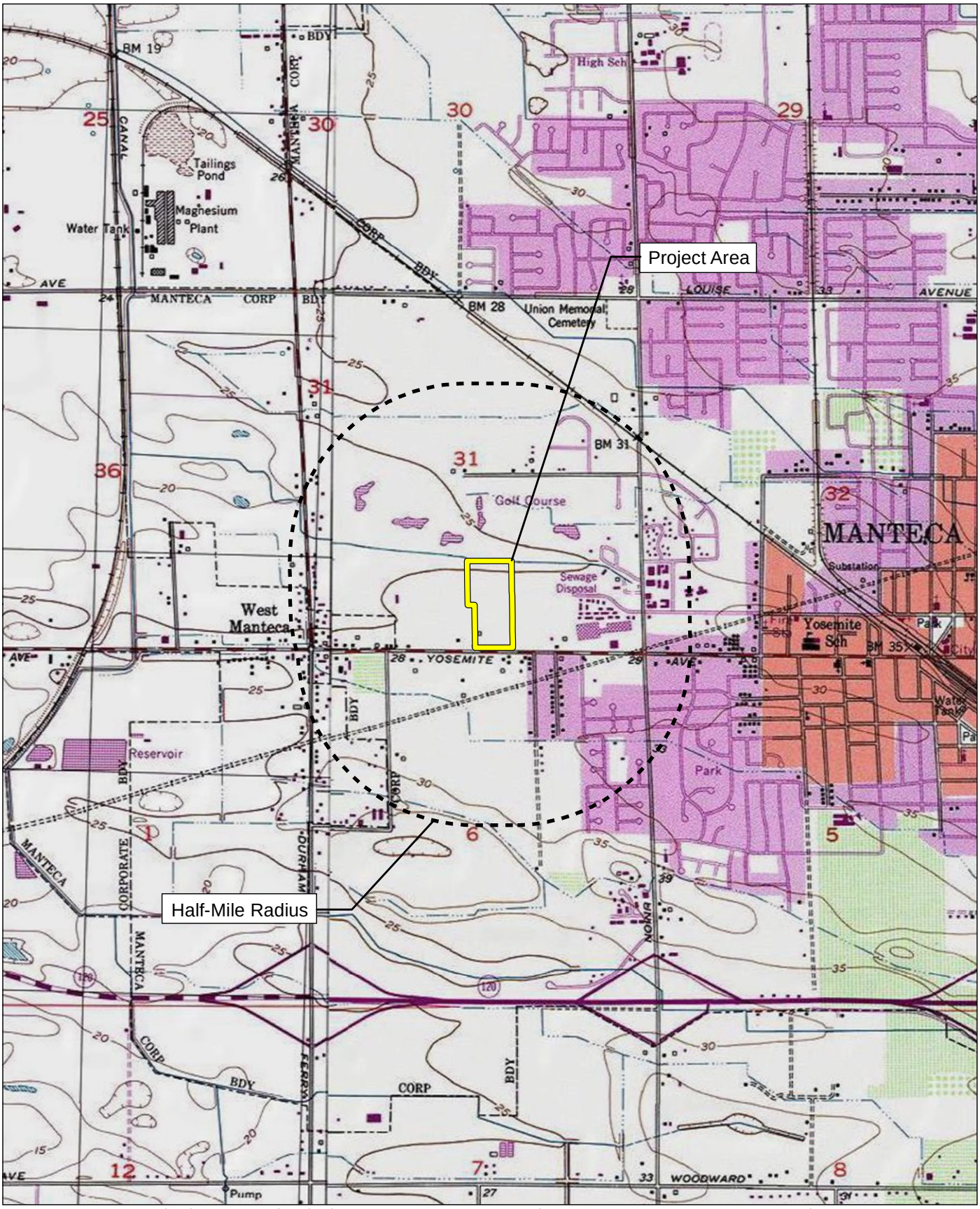


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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

North Valley Yokuts Tribe
Timothy Perez
P.O. Box 717
Linden, CA, 95236

Subject: Proposed Prose Manteca Project

Dear Timothy Perez:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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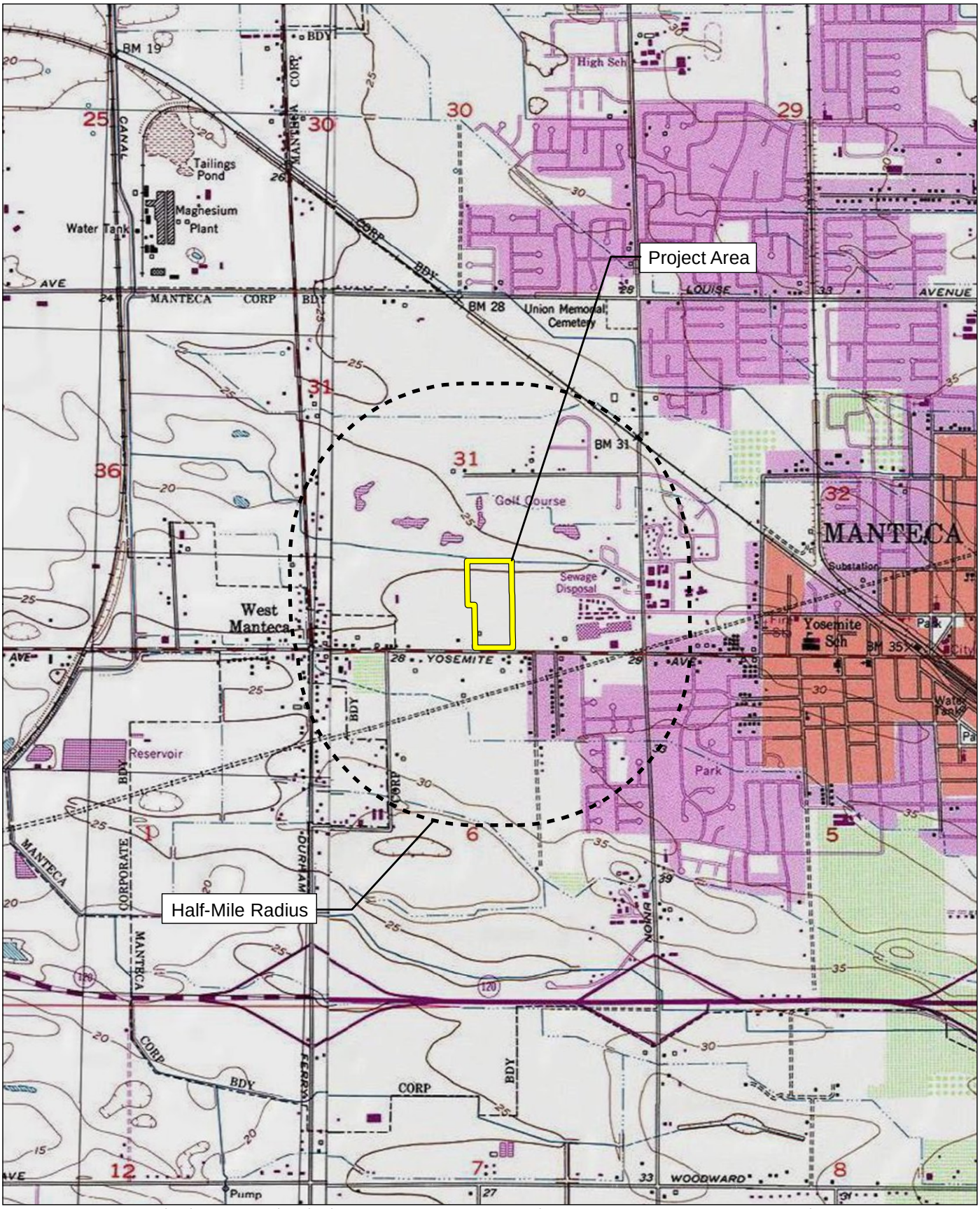


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Wilton Rancheria
Jesus Tarango, Chairperson
9728 Kent Street
Elk Grove, CA, 95624

Subject: Proposed Prose Manteca Project

Dear Chairperson Tarango:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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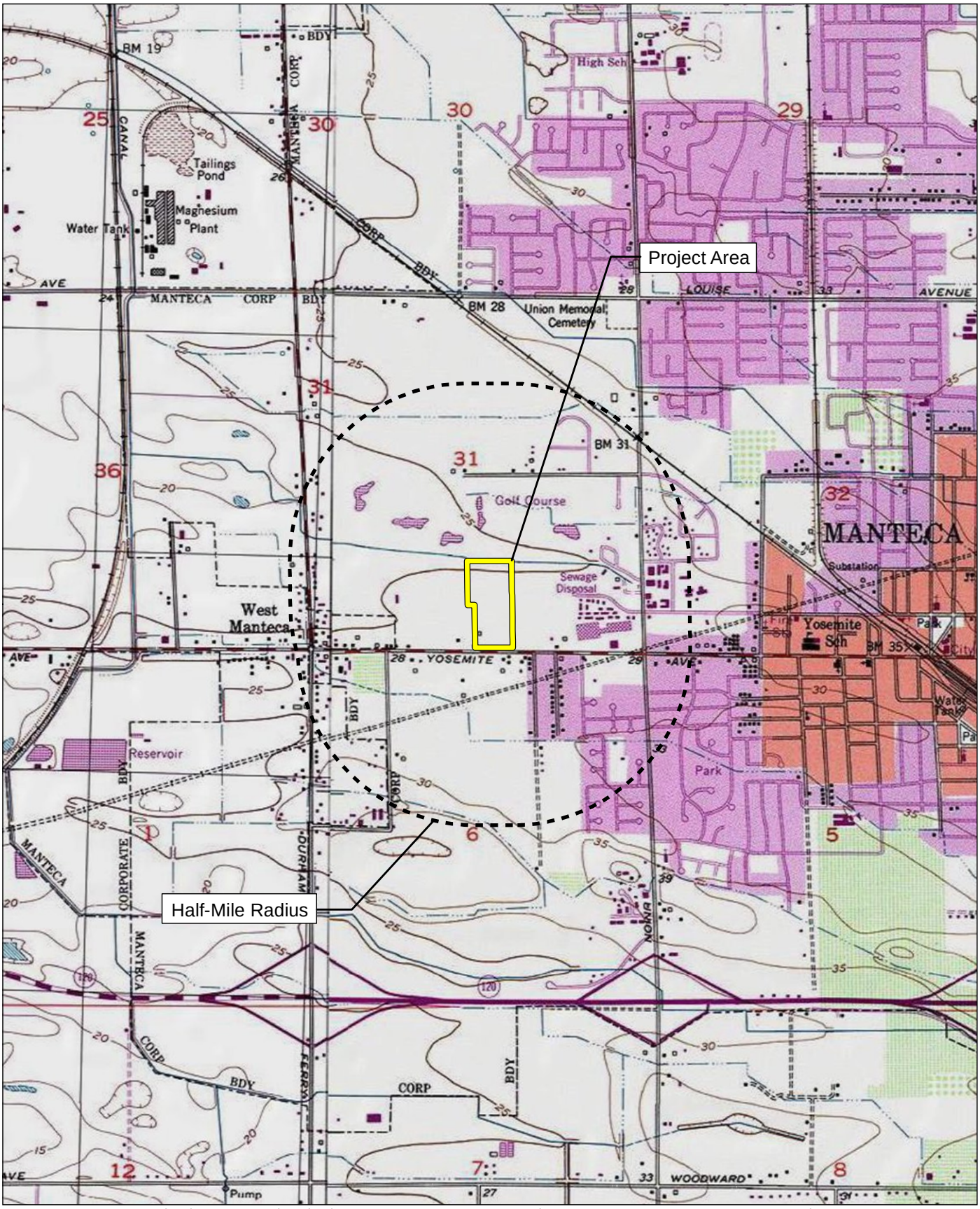


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

March 28, 2022

Wuksache Indian Tribe/Eshom Valley Band
Kenneth Woodrow, Chairperson
1179 Rock Haven Ct.
Salinas, CA, 93906

Subject: Proposed Prose Manteca Project

Dear Chairperson Woodrow:

FirstCarbon Solutions (FCS) is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project on behalf of City of Manteca. As part of the environmental review process, we are conducting a cultural resources assessment.

The proposed project would include 420 multi-family residential units in approximately 20 garden walk-up 3-story buildings with corresponding 746 surface parking spaces, 170,000 square feet of common open space, a community building with a pool, and landscaping. Open space would include approximately 170,000 square feet. A total of 190 units, approximately 45 percent of the total units, would be 1-bedroom units, and 230, approximately 55 percent, would be 2-bedroom units.

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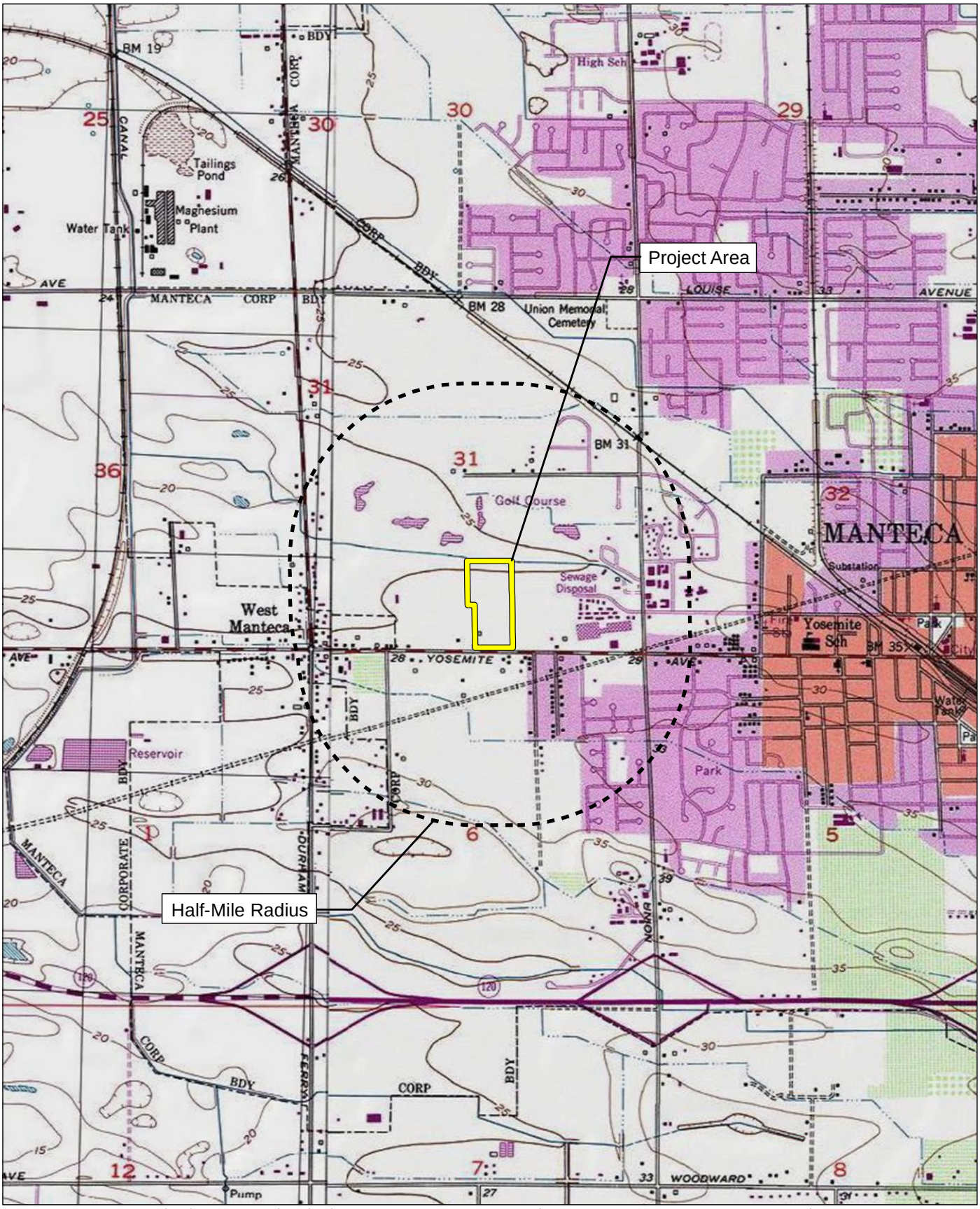


Dana Douglas DePietro, PhD
Director of Cultural Resources
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
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ALLIANCE RESIDENTIAL COMPANY
PROSE MANTECA

Fenrich, Mallorie

From: Katherine Perez <canutes@verizon.net>
Sent: Thursday, May 19, 2022 6:17 PM
To: Fenrich, Mallorie
Subject: Re: Environmental Initial Study - Prose Manteca Project - 1563 & 1625 West Yosemite Avenue - Manteca

WARNING! This email originated from outside the city. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Mallorie,

We are in receipt of your email letter dated May 17, 2022., regarding the Proposed Prose Manteca Project. There are two sites close enough to of given you a positive hit by the NAHC and The Clearing House. This would present a high potential for inadvertent discoveries. It is, therefore, our recommendation to have the proposed project monitored by our tribe (Northern Valley Yokut / Ohlone / Patwin Tribe). The tribe is also requesting a site visit

Nototomne Cultural Preservation
Northern Valley Yokut / Ohlone / Bay Mewuk / Patwin
Katherine Perez
P.O Box 717
Linden, CA 95236
Cell: 209.649.8972
Email: canutes@verizonnet

-----Original Message-----
From: Fenrich, Mallorie <mfenrich@ci.manteca.ca.us>
To: canutes@verizon.net <canutes@verizon.net>
Sent: Tue, May 17, 2022 2:25 pm
Subject: Environmental Initial Study - Prose Manteca Project - 1563 & 1625 West Yosemite Avenue - Manteca

Good afternoon Chairperson Perez,

FirstCarbon Solutions is preparing an Initial Study/Mitigated Negative Declaration (ISMND) for the proposed Prose Manteca Project, on behalf of the City of Manteca. The project is located at 1563 & 1625 West Yosemite Avenue in Manteca, California. Please review the attached letter for more information. If you have any additional information regarding potential historic or cultural resources in proximity or relation to the proposed project area, we would greatly appreciate your input.

Thank you,

Mallorie Fenrich, Associate Planner, MUP, CPD
City of Manteca | Development Services Department
1215 W. Center St., Suite 201| Manteca, CA 95337
Office: 209.456.8514
www.mantecagov.com

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Appendix D:
Geology and Soil Supporting Information

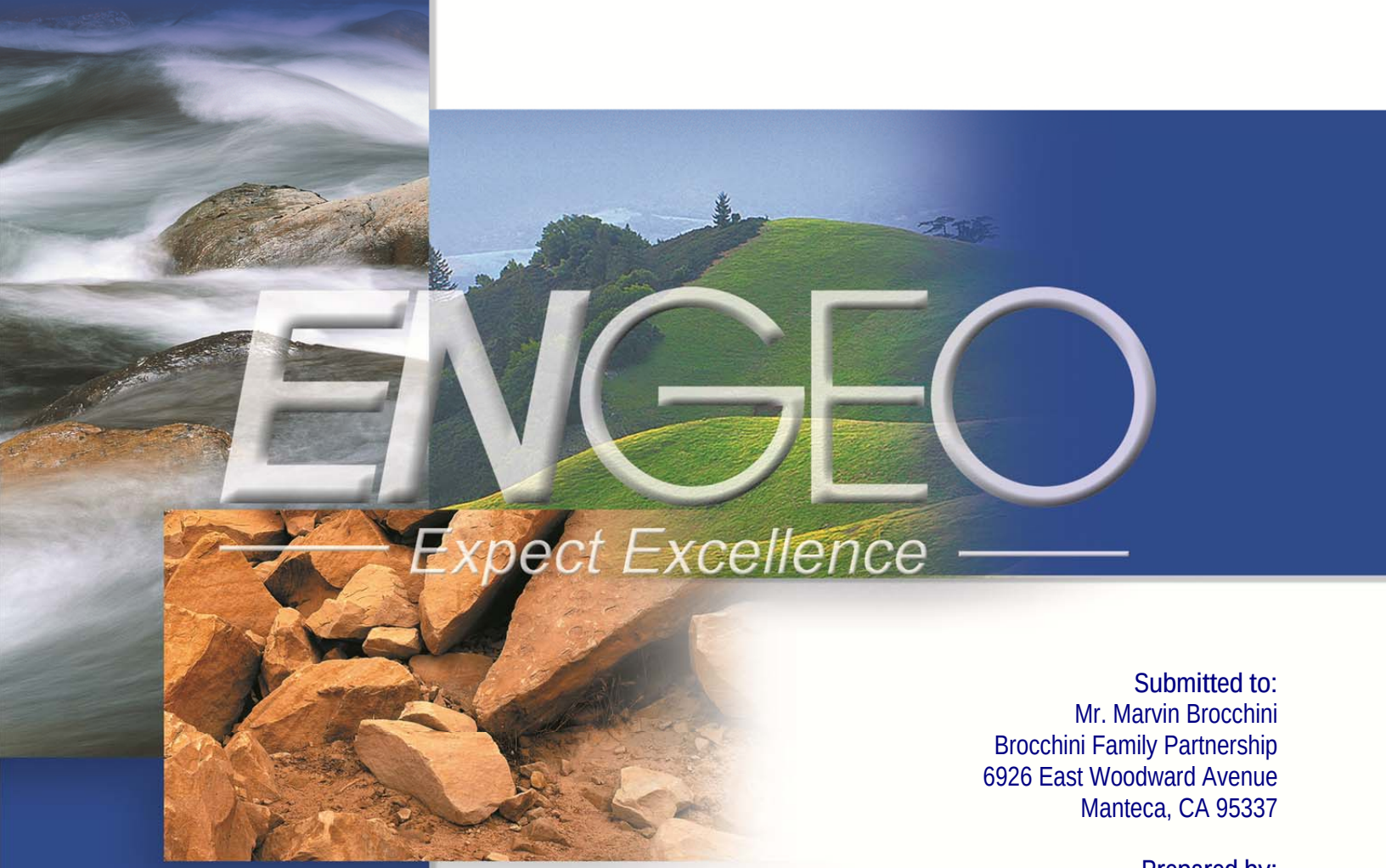
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D.1 - Geotechnical Exploration

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GEOTECHNICAL EXPLORATION

ALMA PLACE
MANTECA, CALIFORNIA



Submitted to:
Mr. Marvin Brocchini
Brocchini Family Partnership
6926 East Woodward Avenue
Manteca, CA 95337

Prepared by:
ENGEO Incorporated

December 10, 2015

Project No:
12618.000.000

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Project No.
12618.000.000

December 10, 2015

Mr. Marvin Brocchini
Brocchini Family Partnership
6926 East Woodward Avenue
Manteca, CA 95337

Subject: Alma Place
West Center Street
Manteca, California

GEOTECHNICAL REPORT

Dear Mr. Brocchini:

We prepared this geotechnical report for subject project as outlined in our agreement dated October 30, 2015. We characterized the subsurface conditions at the site to provide the enclosed 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

Ana Lua
Staff Engineer
al/sh/bvv

Steve Harris, GE
Principal



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Figure 1 - Vicinity Map
Figure 2 - Site Plan

APPENDIX A – Exploration Logs
APPENDIX B - Laboratory Test Data
APPENDIX C – Liquefaction Analysis

1.0 INTRODUCTION

1.1 PURPOSE AND SCOPE

We prepared this geotechnical report for design of the planned residential development in Manteca, California. As outlined in our proposal dated October 30, 2015, our scope of services included a review of available literature and geologic maps for the immediate area, drilling 6 exploratory test borings, advancing 2 Cone Penetration Tests (CPTs), laboratory testing of materials sampled during the field exploration, geotechnical analysis and report preparation.

For our use, we received the Topographic Survey Exhibit prepared by VVH Consulting Engineers dated October 2015.

This report was prepared for the exclusive use of our client and their consultants for design of this project. In the event that any changes are made in the character, design or layout of the development, we must be contacted to review the conclusions and recommendations contained in this report to evaluate whether modifications are recommended. 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.

1.2 PROJECT LOCATION AND DESCRIPTION

The subject site is located at the western end of West Center Street in Manteca, California as shown on our Vicinity Map, Figure 1. The site is currently used for agricultural purposes. demolished and site grading appears to have occurred in the area removed between July and September 2011. Recommendations for the undocumented fill placed there are discussed in Section 5.1.Access to the site is available along West Yosemite Avenue. The site is bounded by a golf course to the north, by West Yosemite Avenue to the south, agricultural fields and an existing asphalt parking lot to the west and residential and commercial buildings to the east. Figure 2 shows the approximate location of our explorations and boundaries of the project.

It is our understanding that the proposed approximately 18-acre development includes 184 condominium units, future commercial development, and a stormwater basin and associated infrastructure. Additional improvements include a swimming pool, community center building, playground, and parking and access lanes.

1.3 SITE HISTORY

Based on a review of historical images available on Google Earth, several structures previously existed in the southwestern corner of the property and were removed between July and September 2011. This portion of the site has now been graded relatively flat. We are not aware of any existing geotechnical reports indicating that site grading in this area was completed under the direction of a geotechnical engineer.

2.0 FINDINGS

2.1 FIELD EXPLORATION

Our field exploration included drilling 6 borings and advancing 2 CPTs, as well as the installation of a monitoring well. We performed our field exploration between November 16, 2015, and November 19, 2015. The approximate locations of the explorations are shown on the Site Plan, Figure 2.

2.1.1 Borings

We retained a truck-mounted Soil Test Ranger drill rig and crew to advance the borings using 4½-inch-diameter solid flight augers. The borings were advanced to depths ranging from approximately 5 to 25 feet below existing grade. An ENGEO representative logged the borings in the field and collected soil samples using either a 2½-inch O.D. Modified California-type split-spoon sampler fitted with 6-inch-long stainless steel 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 samplers into the native materials was field recorded as the number of blows needed to drive the sampler 18 inches in 6-inch increments. Blow count results on the boring logs were recorded as the number of blows required for the last 1 foot of penetration.

We used field logs to develop the boring logs included in Appendix A. The boring logs depict subsurface conditions within the borings at the time the exploration was conducted. Subsurface conditions at other locations may differ from conditions occurring at these boring locations and the passage of time may result in altered subsurface conditions. In addition, stratification lines represent the approximate boundaries between soil types; the transitions may be gradual or gradational.

2.1.2 Cone Penetration Tests

We retained a CPT rig to perform 2 CPTs to depths of approximately 50 feet below the existing grade. The soundings were performed with a 10-square-centimeter end area 10-ton subtraction digital cone with a pore pressure and seismic transducer. The area of the friction sleeve is 150 square centimeters and the average unequal end area ratio is 0.8. The cone, connected with a series of rods, is pushed into the ground at a constant rate. Cone readings are taken at approximately 5 cm intervals with a penetration rate of 2 cm per second in accordance with ASTM D-3441. Measurements include the tip resistance to penetration of the cone (Q_c), the resistance of the surface sleeve (F_s), and pore pressure (U) (Robertson and Campanella, 1988). CPT logs are presented in Appendix A.

2.2 GEOLOGY AND SEISMICITY

2.2.1 Geology

We present the following discussion of site geology based on our field reconnaissance, subsurface exploration, and review of the CGS *Geologic Map of the San Francisco-San Jose Quadrangle* (Wagner, Bortugno, and McJunkin 1991).

The site is located in the Great Valley geomorphic province. The Great Valley is an elongate, northwest-trending structural trough bound by the Coast Range on the west and the Sierra Nevada on the east. The Great Valley has been and is presently being filled with sediments primarily derived from the Sierra Nevada.

Our site reconnaissance and previously referenced geologic map indicate that near-surface geology consists of Holocene Dune Sand (Qs) underlain by Pleistocene-aged deposits of the Modesto formation (Qm) generally consisting of interbedded clay, silt, sand, and gravel.

2.2.2 Seismicity

The site is located in an area of moderate seismicity. No known active[1] faults cross the property and the site is not located within an Alquist-Priolo Earthquake Fault Zone; however, large ($>M_w7$) earthquakes have historically occurred in the Bay Area and along the margins of the Central Valley and many earthquakes of low magnitude occur every year. The two nearest earthquake faults zoned as active by the State of California Geological Survey are the Great Valley fault, located about 14 miles to the west, and the Greenville fault, located about 24 miles to the southwest. The Great Valley fault is a blind thrust fault with no known surface expression; the postulated 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 postulated 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 (Eaton, 1986; Wong and Biggar, 1989; Moores and others, 1991). Further seismic activity can be expected to continue along the western margin of the Central Valley, and as with all projects in the area, the development should be designed to accommodate strong earthquake ground shaking.

Other active faults capable of producing significant ground shaking at the site include the Mount Diablo thrust fault, 32 miles west; the Calaveras fault, 38 miles west; the Hayward fault,

[1] An active fault is defined by the State Mining and Geology Board as one that has had surface displacement within Holocene time (about the last 11,000 years). The State of California has prepared maps designating zones for special studies that contain these active earthquake faults.

41 miles southwest; and the San Andreas Fault, 60 miles southwest. Any one of these faults could generate an earthquake capable of causing strong ground shaking at the subject site. Earthquakes of Moment Magnitude (Mw) 7 and larger have historically occurred in the Bay Area and numerous small magnitude earthquakes occur every year.

2.3 SURFACE CONDITIONS

Site topography is relatively flat and elevations range from approximately 20 to 28 feet according to the topographic information provided by VVH.

We observed the following site features during our reconnaissance:

- An existing irrigation ditch and pipeline bisects the site
- Minimal growth of grasses and weeds across the site.

Please refer to the Site Plan, Figure 2, for more information on site features.

2.4 SUBSURFACE CONDITIONS

The soil encountered in our explorations generally consisted of approximately 4 to 8 feet of loose to medium dense silty sand. Beneath the silty sand we encountered approximately 5 to 6 feet of poorly graded sand above 4 to 9 feet of lean clay. 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.

2.5 GROUNDWATER CONDITIONS

We observed static groundwater in our subsurface boring explorations. We summarize our observations in the table below:

TABLE 2.5-1
Groundwater Observations

Exploration Location	Approximate Ground Surface Elevation (feet)	Approximate Encountered Depth of Groundwater (feet)	Approximate Elevation of Groundwater (feet)
1-B1	26.5	13.5	13
1-B2	27	-	-
1-B3	27	16.5	11.5
1-B4	27.5	-	-
1-B5	27	17	10
1-B6	27.5	17	10.5

Note: Elevations provided are based on topography information from the improvement plans provided by VVH.

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.

2.6 LABORATORY TESTING

Selected samples recovered during drilling were tested to determine the following soil characteristics:

TABLE 2.6-1
Soil Characteristics

Characteristic	Test Method	Location of Results Within this Report
Natural Unit Weight and Moisture Content	ASTM D-7263	Boring Logs
Moisture Content	ASTM D-2216	Boring Logs
Particle Size Distribution	ASTM D-1140	Appendix B

Laboratory test results from samples recovered are included on the boring logs in Appendix A and on the laboratory figures in Appendix B as noted above.

2.7 MONITORING WELL

ENGEO is conducting an ongoing groundwater monitoring study at the site to help characterize the groundwater elevation and seasonal fluctuation at the site. To assist with this study, one exploratory boring was converted into a groundwater level piezometer. A sensor was then suspended by a cable several feet below the groundwater surface and programmed to log data in 1-hour intervals to provide nearly continuous data. Data from the logger will be downloaded and reported separately.

3.0 CONCLUSIONS

From a geotechnical engineering viewpoint, in our opinion, the proposed project may be designed as planned, provided the geotechnical recommendations in this report are properly incorporated into the design plans and specifications. The primary geotechnical concerns that could affect development on the site are seismic-induced ground settlement and ground shaking. We summarize our conclusions below.

3.1 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, liquefaction and dynamic densification. 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, or seiches is considered low to negligible at the site.

3.1.1 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.

3.1.2 Ground Shaking

An earthquake of moderate to high magnitude generated within region 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 2013 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 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).

3.1.3 Liquefaction

Soil liquefaction results from loss of strength during cyclic loading, such as imposed by earthquakes. Soils most susceptible to liquefaction are clean, loose, saturated, uniformly graded, fine-grained sands. Empirical evidence indicates that loose to medium-dense gravels, silty sands, and low- to moderate-plasticity silts and clays may be susceptible to liquefaction. In addition, sensitive high-plasticity soils may be susceptible to significant strength loss (cyclic softening) as a result of significant cyclic loading. The silts and clays encountered are not sensitive and, therefore, not subject to cyclic softening. We summarize the results of our liquefaction analysis below.

We evaluated the liquefaction potential of the site soil with CPT data using methods published by Robertson (2009). The Cyclic Stress Ratio (CSR) was estimated for a Peak Ground Acceleration (PGA_M) value of 0.37g, which is the mapped Maximum Considered Earthquake (MCE) Geometric Mean Peak Ground Acceleration based on the 2013 CBC for a Site Class D. We also used a moment magnitude (M_w) of 6.7 in our analysis, which corresponds to the maximum magnitude for the Great Valley 7 fault based on the United States USGS national seismic hazard maps. We considered a design groundwater elevation of approximately 16 feet in our analysis.

The results of our liquefaction analyses indicate a sand layer approximately 5 feet in thickness at a depth of about 31 feet as potentially liquefiable. Consequences of liquefaction could include surface disruption and settlement. We estimate up to approximately 2 inches of total liquefaction-induced settlement and 1 inch of differential settlement in a design-level seismic event based on the results of our CPT liquefaction analysis. Appendix C includes the results of our CPT-based liquefaction analysis.

3.1.4 Lateral Spreading

Lateral spreading is a failure within a nearly horizontal soil zone, commonly associated with liquefaction, which causes the overlying soil mass to move toward a free face or down a slope. As previously stated, we encountered layers of loose to medium-dense sands that have a potential for liquefaction. The site is located adjacent to a free face at the existing irrigation canal in the central portion of the site. Based on the encountered depth of groundwater and thickness of the liquefiable layers relative to the canal bottom, we consider the potential for lateral spreading to be low.

3.1.5 Flooding

Based on site elevation and distance from water sources, flooding is not expected at the subject site; however, the 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 necessary.

3.2 2013 CBC SEISMIC DESIGN PARAMETERS

The 2013 CBC utilizes design criteria set forth in the 2010 ASCE 7 Standard. Based on the subsurface conditions encountered, we characterized the site as Site Class D in accordance with the 2013 CBC. We provide the 2013 CBC seismic design parameters in Table 3.2-1 below, which include design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCE_R) spectral response acceleration parameters.

TABLE 3.2-1
2013 CBC Seismic Design Parameters
Latitude: 37.7994° Longitude: -121.2427°

Parameter	Value
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	1.01
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.36
Site Coefficient, F_A	1.10
Site Coefficient, F_V	1.68
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	1.11

Parameter	Value
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	0.60
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	0.74
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	0.40
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.37
Long period transition-period, T_L	8 sec

4.0 CONSTRUCTION MONITORING

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:

1. Review the final grading and foundation plans and specifications prior to construction to evaluate whether our recommendations have been implemented, and to provide additional or modified recommendations, as needed. This also allows us to check if any changes have occurred in the nature, design or location of the proposed improvements and provides the opportunity to prepare a written response with updated recommendations.

2. Perform construction monitoring to check the validity of the assumptions we made to prepare this report. Earthwork operations should be performed under the observation of our representative to check that the site is properly prepared, the selected fill materials are satisfactory, and that placement and compaction of the fills has been performed in accordance with our recommendations and the project specifications. Sufficient notification to us prior to earthwork is important.

If we are not retained to perform the services described above, then we are not responsible for any party's interpretation of our report (and subsequent addenda, letters, and verbal discussions).

5.0 EARTHWORK RECOMMENDATIONS

The relative compaction and optimum moisture content of soil and aggregate base referred to in this report are based on the most recent ASTM D1557 test method. Compacted soil is not acceptable if it is unstable. It should exhibit only minimal flexing or pumping, as observed by an ENGEO representative.

As used in this report, 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.

5.1 EXISTING FILL REMOVAL

As previously mentioned, several structures were removed around 2011 from the southwest corner of the site as shown in Figure 2. The depths of the excavations in this area are unknown. We recommend that this are be subexcavated to a minimum depth of two feet below the existing ground surface to the limits shown on Figure 2. ENGEO should observe the bottom of the excavation to observe the conditions of the excavation and provided supplemental recommendations if needed. The bottom of the excavation should then be scarified an additional 12-inches, moisture conditions and compacted in accordance with the recommendations provided in this section. The material removed from the excavation may be incorporated as engineered fills as long as the material meets the criteria of Acceptable Fill as presented in Section 5.4.

5.2 GENERAL SITE CLEARING

Areas to be developed should be cleared of surface and subsurface deleterious materials, including existing building foundations, slabs, buried utility and irrigation lines, debris, and designated trees, shrubs, and associated roots. Clean and backfill excavations extending below the planned finished site grades with suitable material compacted to the recommendations presented in Section 5.6. Retain ENGEO to observe and test backfilling.

Following clearing, strip the site to remove surface organic materials. Strip organics from the ground surface to a depth of at least 2 to 3 inches below the surface. Remove strippings from the site or, if considered suitable by the landscape architect and owner, use them in landscape fill.

It may also be feasible to mulch organics in place, depending on the amount and type of vegetation present at the time of grading as well as the proposed mulching method. If desired, ENGEO can evaluate site vegetation at the time of grading to assess the feasibility of mulching organics in place.

5.3 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. Stabilizing with aggregate, geotextile stabilization fabric, or both.

Options 3 should be evaluated by ENGEO prior to implementation.

5.4 ACCEPTABLE FILL

Onsite soil material is suitable as fill material provided it is processed to remove concentrations of organic material, debris, and particles greater than 8 inches in maximum dimension. Imported fill materials should meet the above requirements and have a plasticity index less than 12. Allow ENGEO to sample and test proposed imported fill materials at least 72 hours prior to delivery to the site.

5.5 FILL COMPACTION

5.5.1 Grading in Structural Areas

After stripping of vegetation and removing undocumented fill, areas to receive fill should be scarified 12 inches in depth followed by moisture conditioning and compaction of the exposed surface to provide adequate bonding with the initial fill lift. All fills should be placed in lifts not exceeding 12 inches in maximum loose thickness. During grading activities, ENGEO will make additional recommendations to address site-specific conditions.

Generally apply the following compaction control requirements for onsite soils:

Test Procedure:	ASTM D-1557 (most recent).
Required Moisture Content:	A minimum of 1 percentage point above the optimum moisture.
Required Relative Compaction:	Minimum 92 percent.

The upper 6 inches of roadway subgrade should be compacted to a minimum 95 percent relative compaction and above slightly above the optimum moisture content.

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.

All fill material should be compacted by mechanical means only.

5.5.2 Underground Utility Backfill

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.

Place and compact trench backfill in structural areas as follows:

1. Trench backfill should have a maximum particle size of 6 inches;

2. Moisture condition trench backfill in accordance with the Section 5.5.1;

3. Place fill in loose lifts not exceeding 12 inches; and

4. Compact fill in accordance with the Section 5.5.1.

Where utility trenches cross underneath buildings, we recommend that a plug be placed within the trench backfill to help prevent the normally granular bedding materials from acting as a conduit for water to enter beneath the building. The plug should be constructed using a sand cement slurry (minimum 28-day compressive strength of 500 psi). We recommend that the plug extend for a distance of at least 3 feet in each direction from the point where the utility enters the building perimeter.

Jetting of backfill is not an acceptable means of compaction.

5.6 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. As a minimum, we recommend the following:

1. Discharge roof downspouts into closed conduits and direct away from foundations to appropriate drainage devices.

2. Do not allow water to pond near foundations, pavements, or exterior flatwork.

6.0 FOUNDATION RECOMMENDATIONS

We developed structural improvement recommendations using data obtained from our field exploration, laboratory test results, and engineering analysis.

6.1 CONVENTIONAL FOOTINGS WITH SLAB-ON-GRADE

The proposed structures can be supported on continuous or isolated spread footings bearing in competent native soil or compacted fill.

6.1.1 Footing Dimensions and Allowable Bearing Capacity

Provide minimum footing dimensions as follows in the Table 6.1.1-1 below.

TABLE 6.1.1-1
Minimum Footing Dimensions

Footing Type	*Minimum Depth (inches)	Minimum Width (inches)
Continuous / Isolated for Single-Story	18	12
Continuous / Isolated for Two-Story	24	18

*below lowest adjacent pad grade

Minimum footing depths shown above are taken from lowest adjacent pad grade. The cold joint between the exterior footing and slab-on-grade should be located at least 4 inches above adjacent exterior grade.

Design foundations recommended above for a maximum allowable bearing pressure of 2,000 pounds per square foot (psf) for dead-plus-live loads. Increase this bearing capacity by one-third for the short-term effects of wind or seismic loading.

The maximum allowable bearing pressure is a net value; the weight of the footing may be neglected for design purposes. Footings located adjacent to utility trenches should have their bearing surfaces below an imaginary 1:1 (horizontal:vertical) plane projected upward from the bottom edge of the trench to the footing.

6.1.2 Waterstop

If a two-pour system is used for footings and slab, the cold joint between the exterior footing and slab-on-grade should be located at least 4 inches above adjacent finish exterior grade. If this is not done, then we recommend the addition of a waterstop between the two pours to reduce moisture penetration through the cold joint and migration under the slab. Use of a monolithic pour would eliminate the need for the waterstop.

6.1.3 Reinforcement

The structural engineer should design footing reinforcement to support the intended structural loads without excessive settlement. Reinforce continuous footings with top and bottom steel to provide structural continuity and to permit spanning of local irregularities. At a minimum, design continuous footings to structurally span a clear distance of 5 feet.

6.1.4 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: 0.35

Passive lateral pressure should not be used for footings on or above slopes.

6.2 INTERIOR CONCRETE FLOOR SLABS

We recommend the following minimum design:

1. Consider a minimum concrete thickness of 5 inches.

2. Consider minimum steel reinforcing of No. 3 rebar on 18-inch centers each way within the middle third of the slab to help control the width of shrinkage cracking that inherently occurs as concrete cures.

The structural engineer should provide final design thickness and reinforcement, as necessary, for the intended structural loads.

6.2.1 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. For slabs-on-grade, 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 1745-11 “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.

3. Provide inspection and testing during concrete placement to check that the proper concrete strength and water cement ratio are used.

4. Moist cure slabs for a minimum of 3 days or use other equivalent curing specific by the structural engineer.

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.

6.3 EXTERIOR FLATWORK

Exterior flatwork includes items such as concrete sidewalks, steps, and outdoor courtyards exposed to foot traffic only. Provide a minimum concrete flatwork thickness of 4 inches. Construct control and construction joints in accordance with current Portland Cement Association Guidelines.

6.4 TRENCH BACKFILL

Backfill and compact all trenches below building slabs-on-grade and to 5 feet laterally beyond any edge in accordance with Section 5.0

7.0 SWIMMING POOL

The pool reinforcing should be designed by a structural engineer. The shell should be well reinforced and the walls should be designed for an active pressure of 60 pounds per cubic foot. The final pool plans should be submitted to the Geotechnical Engineer for review when they become available.

We recommend that efforts be made to reduce the probability of leakage from the pool and to detect the leakage should it occur. It is important to provide a gunite shell with a high degree of certainty against leakage. Subsurface drainage systems should be installed to collect any water that may leak through the pool shell. A drainage layer consisting of at least 6 inches of gravel or crushed rock should be placed beneath the pool to intercept and drain any leakage. The base of the drainage layer should be sloped at least 2 percent toward the center to allow water to flow into the subdrain trenches. The subdrain pipe should have a minimum slope of 1 percent and should be directed to an appropriate discharge point, which can be periodically observed for leakage. Routine pool maintenance should be scheduled to repair any leakage that may develop.

The pool excavation should be observed by ENGEO's field representative prior to steel installation. The soils exposed in the pool excavation should be kept moist at all times prior to concrete placement.

The subgrade material under the pool deck should be reworked to a depth of at least 12 inches and compacted to not less than 92 percent of maximum dry density at a moisture content of at least 1 percentage points above optimum. The subgrade should be graded to slope away from the pool walls at a minimum slope of 2 percent.

Subgrade soil materials should not be allowed to become dry prior to completion of landscaping. Minor cracking on concrete slabs should be expected in the future.

8.0 PAVEMENT DESIGN

8.1 FLEXIBLE PAVEMENTS

The surface soils vary across the site, therefore it is our opinion that an R-value of 40 is applicable for preliminary design. R-Value testing should be performed once the site grading is completed to determine if the following recommendations are still appropriate. Using estimated traffic indices for various pavement loading requirements, we developed the following recommended pavement sections using Topic 633 of the Caltrans Highway Design Manual (including the asphalt factor of safety), presented in the table below.

TABLE 8.1-1
Recommended Asphalt Concrete Pavement Sections

Traffic Index	Section	
	Asphalt Concrete (inches)	Class 2 Aggregate Base (inches)
4	2½	4
5	3	4
6	3½	6
7	4	7
8	5	8
9	5½	10

The civil engineer should determine the appropriate traffic indices based on the estimated traffic loads and frequencies.

8.2 SUBGRADE AND AGGREGATE BASE COMPACTION

Compact finish subgrade and aggregate base in accordance with Section 5.0. Aggregate Base should meet the requirements for ¾-inch maximum Class 2 AB in accordance with Section 26-1.02a of the latest Caltrans Standard Specifications.

9.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report presents geotechnical recommendations for design of the improvements discussed in Section 1.2 for the Alma Place 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 geotechnical engineering principles and practices currently employed in the area; no warranty is expressed 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 or provide insurance; 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 is representative of the actual subsurface conditions across the site. Considering possible underground variability of soil, rock, stockpiled material, 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, notify ENGEO 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, notify the proper regulatory officials 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 onsite 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 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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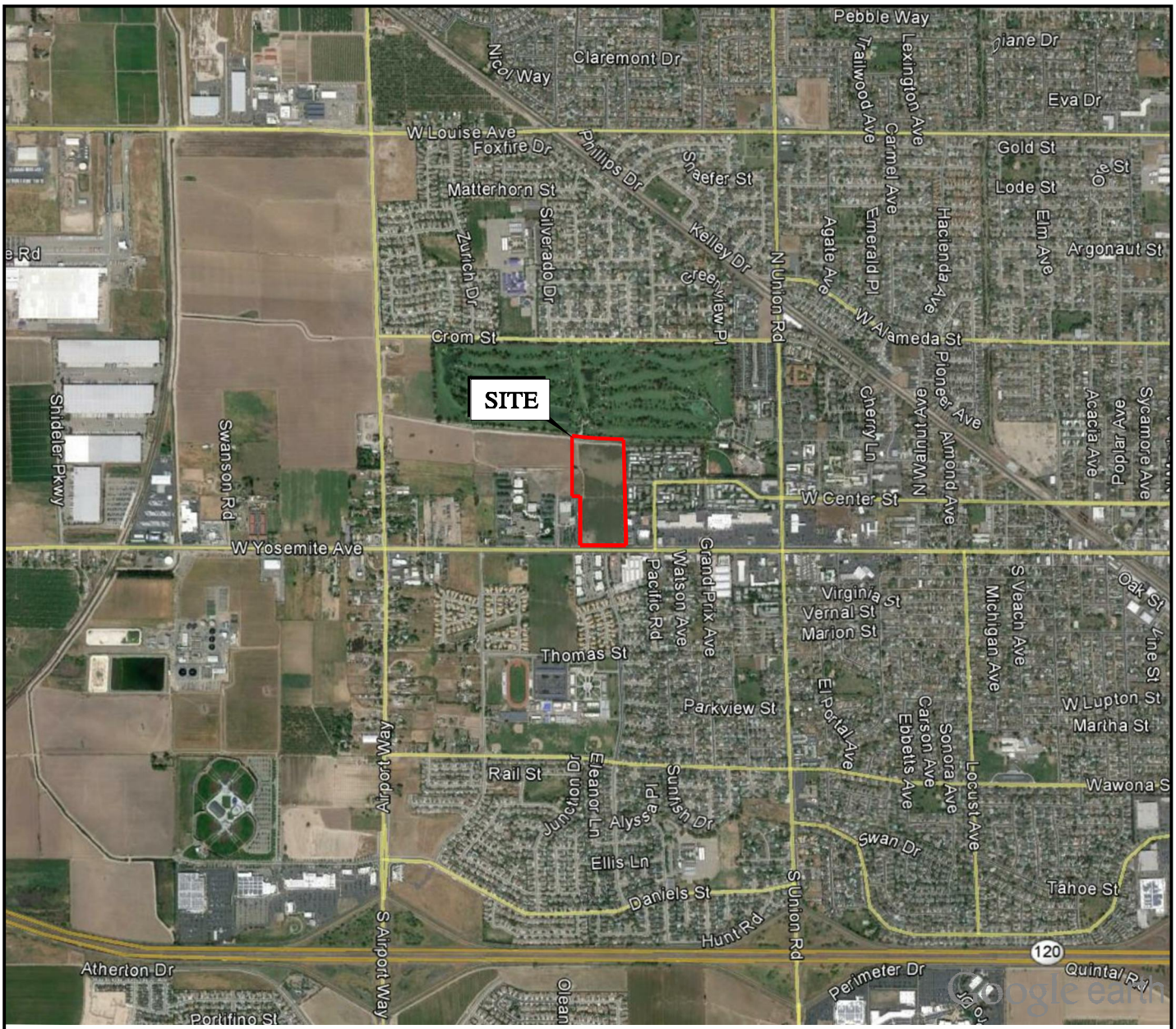
FIGURES

Figure 1 - Vicinity Map
Figure 2 - Site Plan

FIGURES



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N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE

ENGEO Expect Excellence

VICINITY MAP

ALMA PLACE

MANTECA, CALIFORNIA

PROJECT NO.: 12618.000.000		FIGURE NO. 1
SCALE: AS SHOWN		
DRAWN BY: LL	CHECKED BY: ZC	

G:\Drafting\DRAFTING2_Dwg_10000 to 12999\12618\000\12618000000-1-GEX-VICMAP-1115.dwg Plot Date: 12-04-15 llee

ORIGINAL FIGURE PRINTED IN COLOR

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EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

1-B6 20' — BORING, WITH DEPTH SHOWN

1-P1 — PIEZOMETER

1-CPT2 50' — CONE PENETRATION TEST, WITH DEPTH SHOWN

N

0 FEET 200

0 METERS 100

BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE

ENGEO Expect Excellence

VICINITY MAP

ALMA PLACE

MANTECA, CALIFORNIA

PROJECT NO.: 12618.000.000			FIGURE NO. 2
SCALE: AS SHOWN			
DRAWN BY: LL	CHECKED BY: ZC		

G:\Drafting\DRAFTING2_Dwg_10000 to 12999\12618\000\12618000000-2-GEX-SITEPLAN-1115.dwg Plot Date:12-09-15 llee

ORIGINAL FIGURE PRINTED IN COLOR

APPENDIX A

EXPLORATIONS

Key to Boring Logs
Boring Logs
Cone Penetration Test Logs

APPENDIX A



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 GP - Poorly graded gravels or gravel-sand mixtures
		GRAVELS WITH OVER 12 % FINES	GM - Silty gravels, gravel-sand and silt mixtures 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 SP - Poorly graded sands or gravelly sand mixtures
		SANDS WITH OVER 12 % FINES	SM - Silty sand, sand-silt mixtures 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 CL - Inorganic clay with low to medium plasticity OL - Low plasticity organic silts and clays
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50 %		MH - Elastic silt with high plasticity CH - Fat clay with high plasticity 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
- 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

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 16½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): Approx. 26½ ft.

LOGGED / REVIEWED BY: A. Lua /
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)	Unconfined Strength (tsf) *field approx
	25		SILTY SAND (SM), brown, medium dense, moist, fine-grained sand, 15-25% fines (loose at surface)			33				21			
						24							
5													
	20					17							
			POORLY GRADED SAND (SP), grayish brown, medium dense, moist, fine- to medium-grained sand, <5% fines										
10													
	15					18							
			LEAN CLAY (CL), grayish brown, very stiff, wet, medium plasticity, <15% fine-grained sand		▽								
15													
						27							
	10		Bottom of boring at aproximately 16 1/2 feet Groundwater encountered at approx. 13 1/2 feet during drilling										

LOG OF BORING 1-B2

ENGEO INCORPORATED

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 16½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): Approx. 27 ft.

LOGGED / REVIEWED BY: A. Lua /
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)	Unconfined Strength (tsf) *field approx
	25		SILTY SAND (SM), brown, medium dense, moist, fine-grained sand, 15-25% fines (loose at surface)			22							
			(medium dense)			16							
5			POORLY GRADED SAND WITH SILT (SP-SM), brown, medium dense, moist, fine- to medium-grained sand, 5-12% fines			20							
	20		POORLY GRADED SAND (SP), grayish brown, medium dense, moist, fine- to medium-grained sand, <5% fines										
10						22							
	15		LEAN CLAY (CL), grayish brown, very stiff, moist, medium plasticity, <10% fine-grained sand										
15						50					29	99	
			Bottom of boring at aproximately 16 1/2 feet Groundwater not encountered during drilling										

LOG - GEOTECHNICAL W/ELEV. ALMA PLACE BORINGS.GPJ ENGEO INC.GDT 12/3/15

LOG OF BORING 1-B3

ENGEO INCORPORATED

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 22½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): 27 ft.

LOGGED / REVIEWED BY: A. Lua /
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)	Unconfined Strength (tsf) *field approx
			SILTY SAND (SM), brown, medium dense to dense, moist, fine-grained sand, 15-25% fines (loose at surface)			50/6"							
	25					20					5		
5			SANDY SILT (ML), grayish brown, hard, moist, low plasticity, fine-grained sand			50				63	10		
	20												
			POORLY GRADED SAND (SP), grayish brown, medium dense, moist, fine- to medium-grained sand, <5% fines										
10						14					4		
	15												
			LEAN CLAY WITH SAND (CL), grayish brown, very stiff, moist to wet, medium plasticity, <20% fine-grained sand		▽								
15						52					21		
	10												
			LEAN CLAY (CL), grayish brown, very stiff, wet, medium plasticity, <10% fine-grained sand										
20						21					33		
	5					23							
			Bottom of boring at aproximately 23 feet Groundwater encountered at approx. 16 1/2 feet during drilling										

LOG - GEOTECHNICAL W/ELEV. ALMA PLACE BORINGS.GPJ ENGEO INC.GDT 12/3/15

LOG OF BORING 1-B4

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 6½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): Approx. 27½ ft.

LOGGED / REVIEWED BY: A. Lua /
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)	Unconfined Strength (tsf) *field approx
	25		SILTY SAND (SM), brown, medium dense, moist, fine-grained sand, 15-25% fines (loose at surface)			14							
						17				17			
5			(loose)			11							
			Bottom of boring at aproximately 6 1/2 feet Groundwater not encountered during drilling										

LOG - GEOTECHNICAL W/ELEV. ALMA PLACE BORINGS.GPJ ENGEO INC.GDT 12/3/15

LOG OF BORING 1-B5

ENGEO INCORPORATED

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): Approx. 27 ft.

LOGGED / REVIEWED BY: A. Lua /
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)	Unconfined Strength (tsf) *field approx
			SILTY SAND (SM), brown, medium dense, moist, fine-grained sand, 15-25% fines (loose at surface)			27							
	25					20							
5			(yellowish brown)			18							
	20												
			POORLY GRADED SAND (SP), grayish brown, medium dense, moist, fine- to medium-grained sand, <5% fines										
10						20				2			
	15												
			LEAN CLAY (CL), grayish brown, very stiff, moist to wet, medium plasticity, <15% fine- to medium-grained sand										
15					▽	35							4.0*
	10												
			LEAN CLAY (CL), gray, hard, wet, medium plasticity, <10% fine- to medium-grained sand										
20						50							
			Bottom of boring at aproximately 21 1/2 feet Groundwater encountered at approx. 17 feet during drilling										

LOG - GEOTECHNICAL W/ELEV. ALMA PLACE BORINGS.GPJ ENGEO INC.GDT 12/3/15

LOG OF BORING 1-B6

ENGEO INCORPORATED

Geotechnical Exploration
Alma Place
Manteca, CA
12618.000.000

DATE DRILLED: 11/19/2015
HOLE DEPTH: Approx. 21½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (): Approx. 27½ ft.

LOGGED / REVIEWED BY: A. Lua /
DRILLING CONTRACTOR: West Coast Exploration
DRILLING METHOD: Solid Flight Auger
HAMMER TYPE: 140 lb. Rope and Cathead

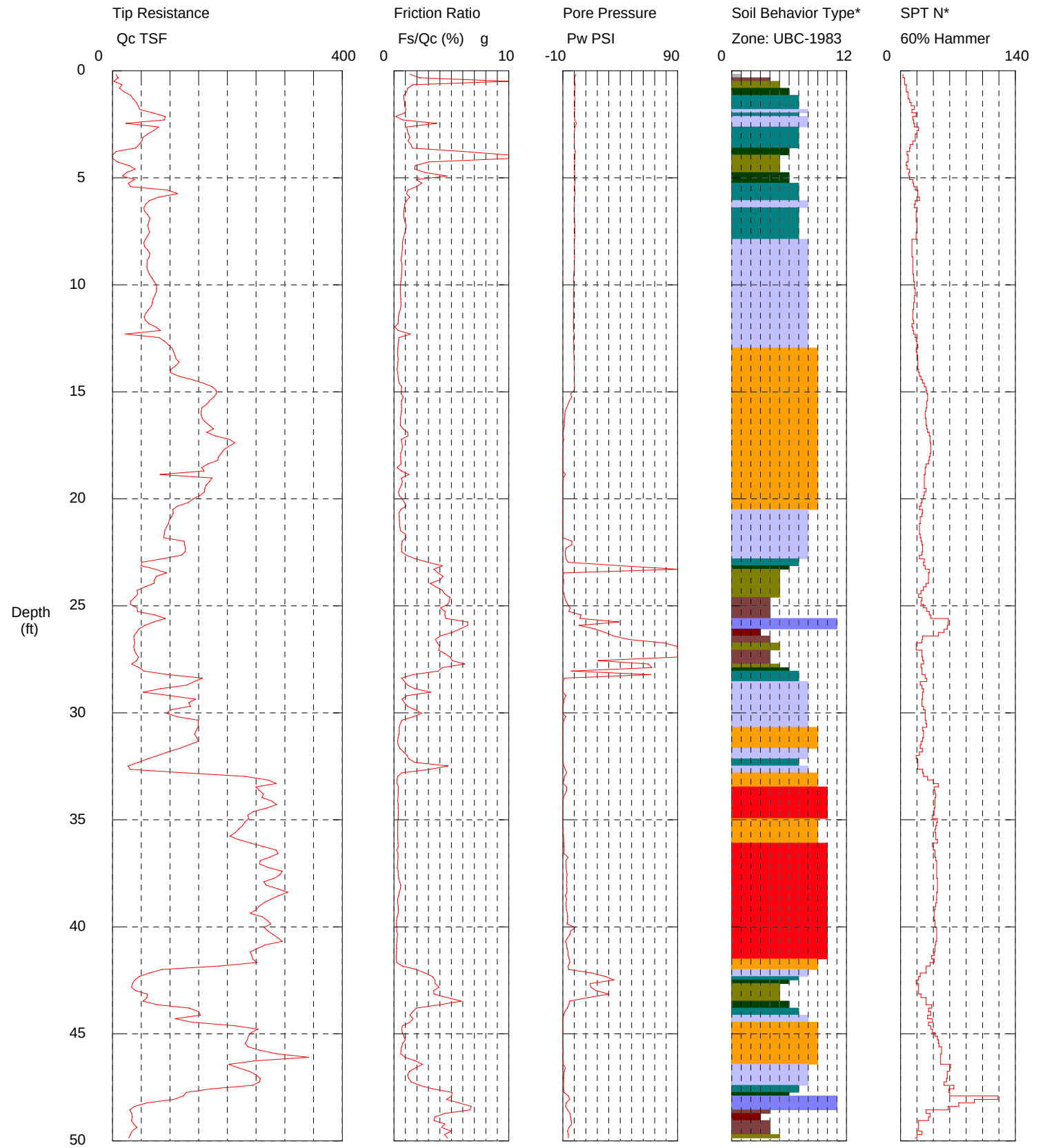
Depth in Feet	Elevation in Feet	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	Atterberg Limits: Liquid Limit	Atterberg Limits: Plastic Limit	Atterberg Limits: Plasticity Index	Fines Content (% passing #200 sieve)	Moisture Content (% dry weight)	Dry Unit Weight (pcf)	Unconfined Strength (tsf) *field approx
			SILTY SAND (SM), brown, medium dense, moist, fine-grained sand, 15-25% fines (loose at surface)			38							
	25		SANDY SILT (ML), grayish brown, stiff, moist, low plasticity, 15-25% fine- to medium-grained sand			27					11		
5			POORLY GRADED SAND WITH SILT (SP-SM), yellowish brown, medium dense, moist, fine- to medium-grained sand, 5-12% fines			40					7		
	20												
10			POORLY GRADED SAND (SP), yellowish brown, medium dense, moist, fine- to medium-grained sand, <5% fines			27					3		
	15		LEAN CLAY (CL), grayish brown, hard, moist to wet, medium plasticity, <15% fine-grained sand		▽	65					26		
15													
	10		POORLY GRADED SAND WITH SILT (SP-SM), grayish brown, very dense, wet, fine- to medium-grained sand, 5-12% fines			82					20		
20													
			Bottom of boring at aproximately 21 1/2 feet Groundwater encountered at approx. 17 feet during drilling										

LOG - GEOTECHNICAL W/ELEV. ALMA PLACE BORINGS.GPJ ENGEO INC.GDT 12/3/15

ENGEO

Operator: Rocco
Sounding: 1
Cone Used: DDG1316

CPT Date/Time: 11/16/2015 1:40:06 PM
Location: Manteca
Job Number: ENG-547



Maximum Depth = 50.20 feet

Depth Increment = 0.164 feet

1 sensitive fine grained
2 organic material
3 clay
4 silty clay to clay
5 clayey silt to silty clay
6 sandy silt to clayey silt
7 silty sand to sandy silt
8 sand to silty sand
9 sand
10 gravelly sand to sand
11 very stiff fine grained (*)
12 sand to clayey sand (*)

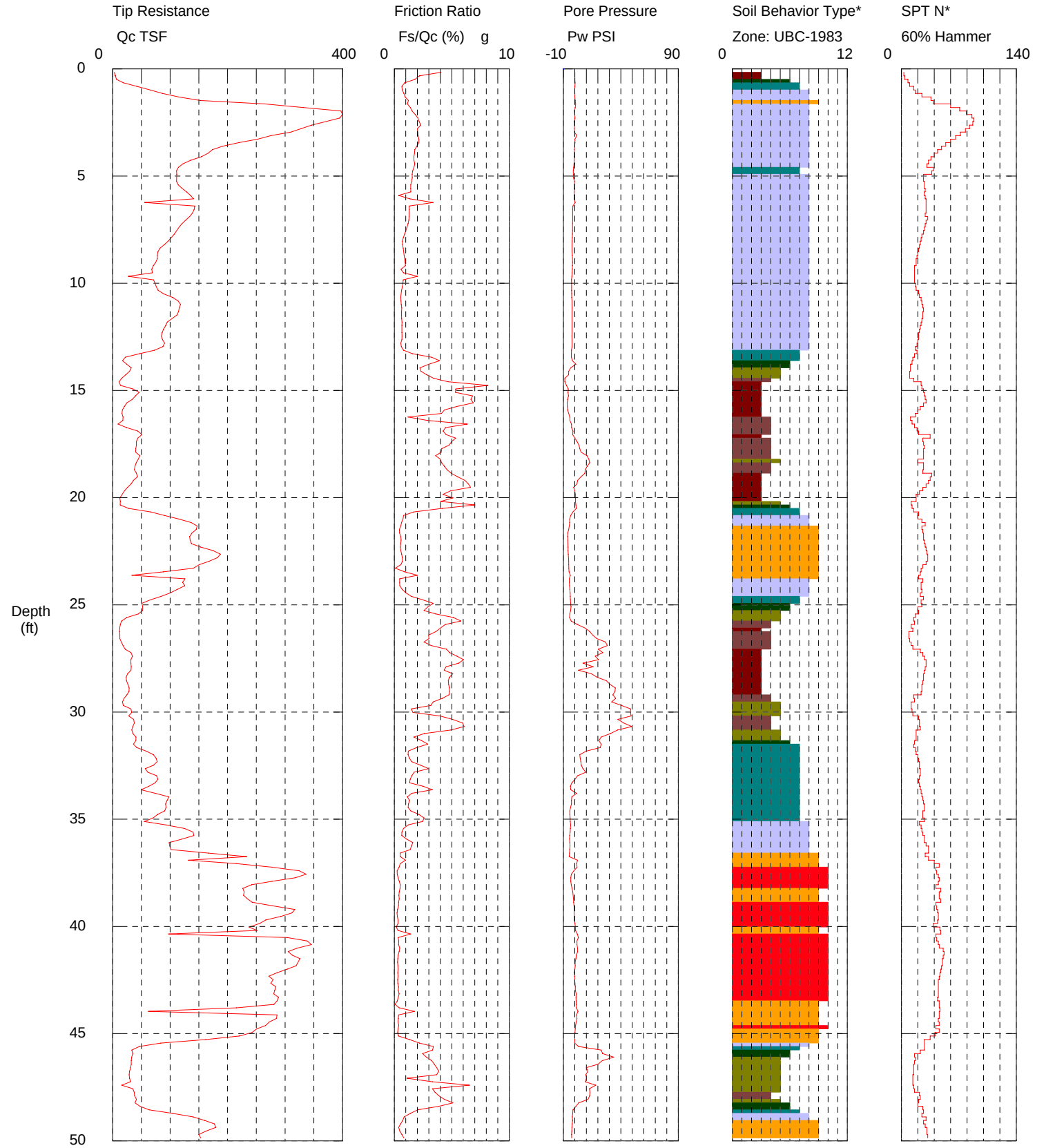
Filter On

*Soil behavior type and SPT based on data from UBC-1983

ENGEO

Operator: Rocco
Sounding: 2
Cone Used: DDG1316

CPT Date/Time: 11/16/2015 2:20:36 PM
Location: Manteca
Job Number: ENG-547



Maximum Depth = 50.20 feet

Depth Increment = 0.164 feet

1 sensitive fine grained
2 organic material
3 clay
4 silty clay to clay
5 clayey silt to silty clay
6 sandy silt to clayey silt
7 silty sand to sandy silt
8 sand to silty sand
9 sand
10 gravelly sand to sand
11 very stiff fine grained (*)
12 sand to clayey sand (*)

Filter On

*Soil behavior type and SPT based on data from UBC-1983

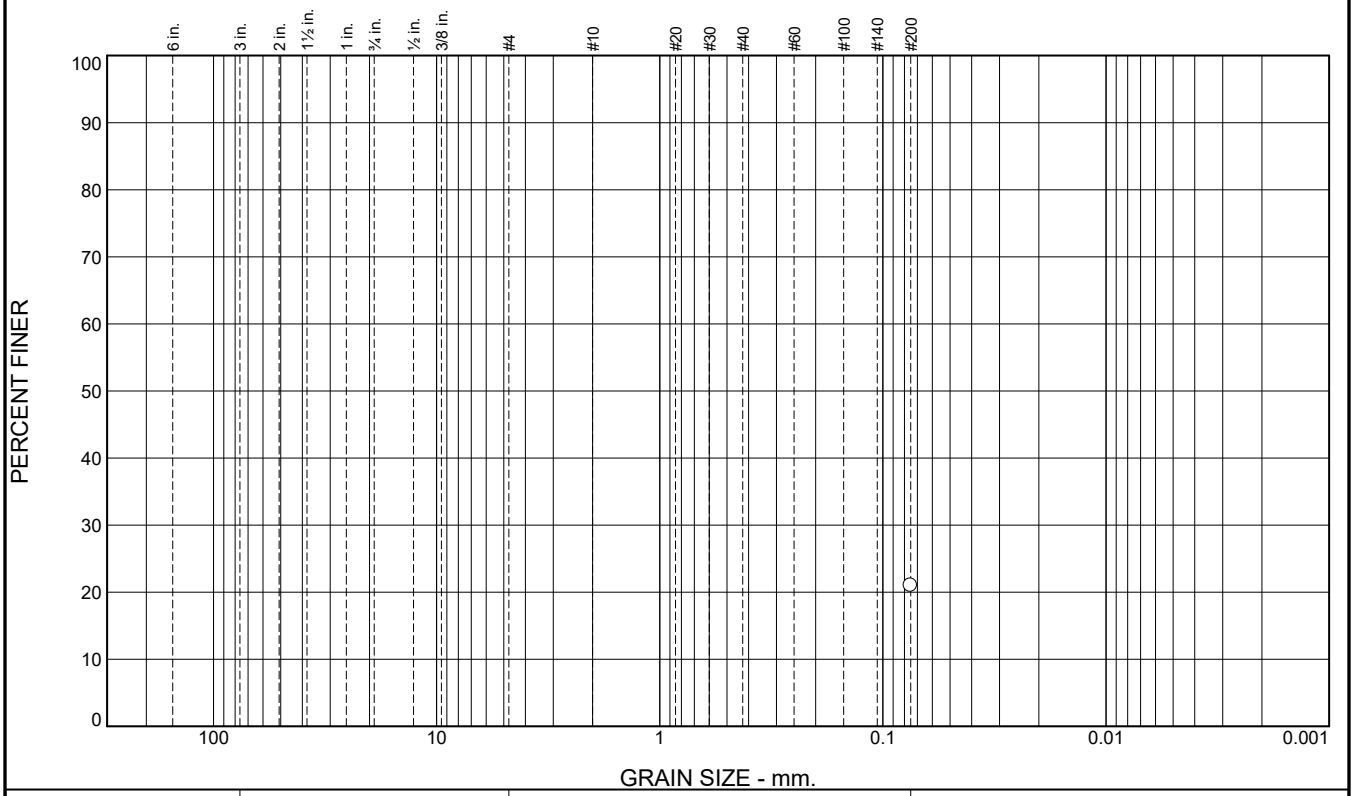
APPENDIX B

LABORATORY TEST DATA

Particle Size Distribution Report



Particle Size Distribution Report



% +75mm	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						21.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	21.0		

* (no specification provided)

Material Description

See Exploratory Log

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= AASHTO=

Remarks

ASTM D1140

Sample Number: 1-B1 @ 2 **Depth:** 2

Date: 11-20-15

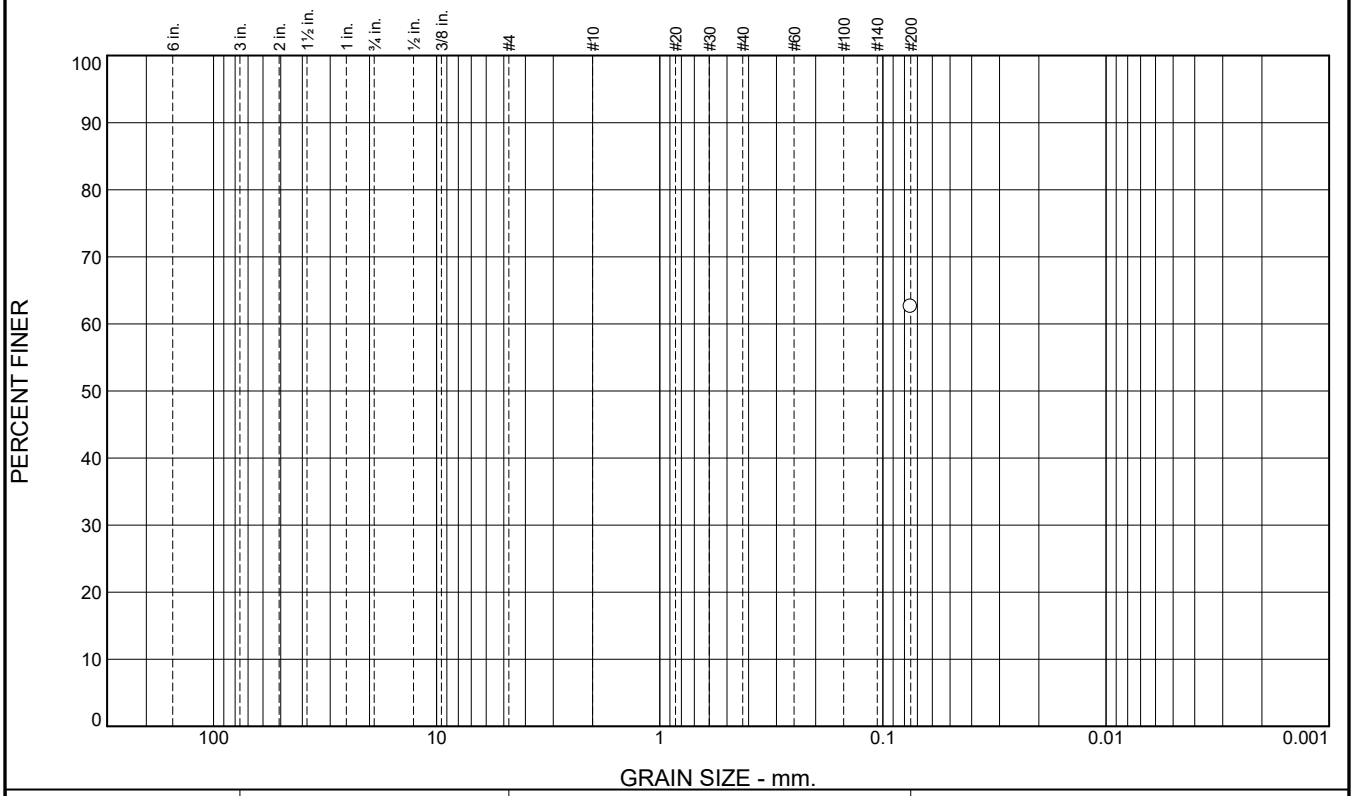
ENGEO INCORPORATED

Client: Brocchini Family Partnership
Project: Alma Place

Project No: 12618.000.000 **Figure**

Tested By: I. NcCauley **Checked By:** K. Lecce

Particle Size Distribution Report



% +75mm	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						62.6	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	62.6		

* (no specification provided)

Material Description

See Exploratory Log

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= AASHTO=

Remarks

ASTM D1140

Sample Number: 1-B3 @ 5 **Depth:** 5

Date: 11-20-15

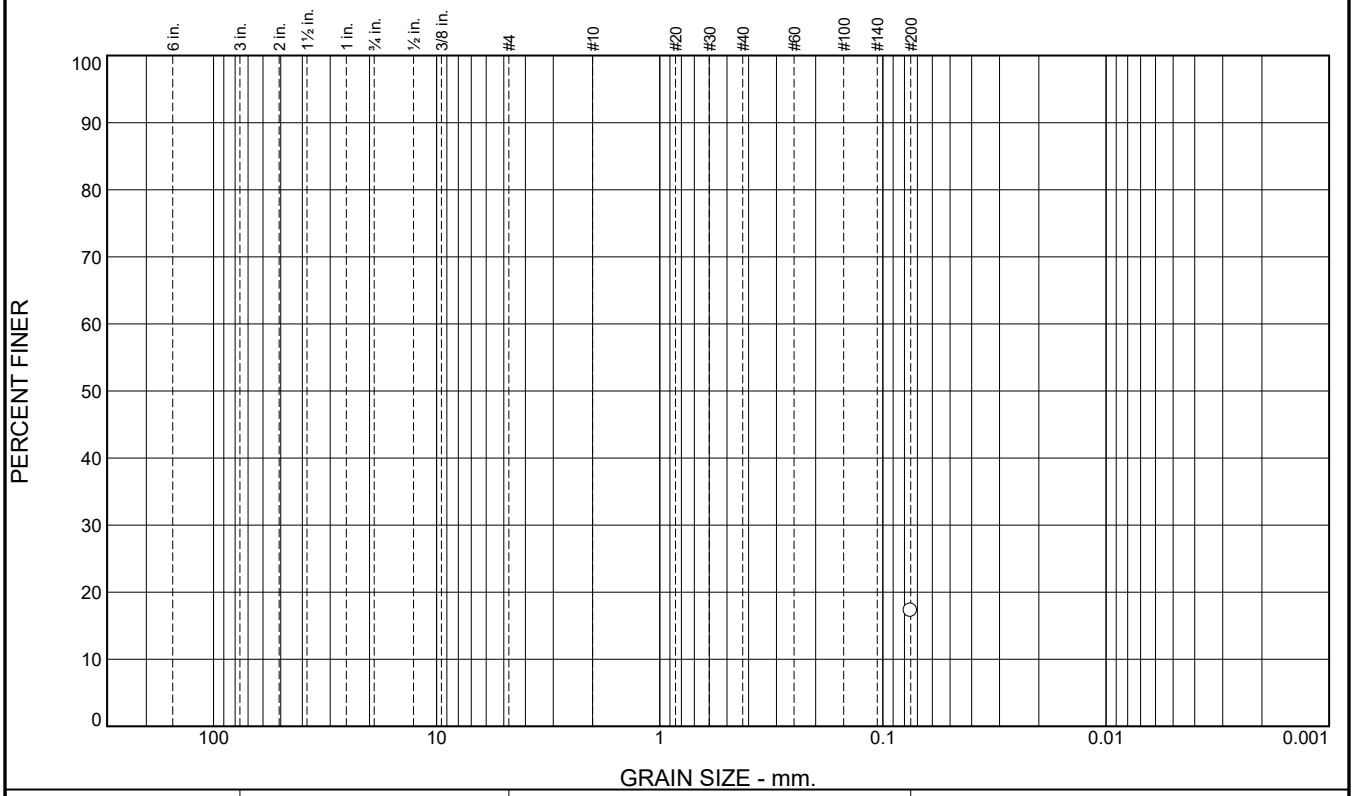
ENGEO INCORPORATED

Client: Brocchini Family Partnership
Project: Alma Place

Project No: 12618.000.000 **Figure**

Tested By: I. McCauley **Checked By:** K. Lecce

Particle Size Distribution Report



% +75mm	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						17.3	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	17.3		

* (no specification provided)

Material Description

See Exploratory Log

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= AASHTO=

Remarks

ASTM D1140

Sample Number: 1-B4 @ 2.5 **Depth:** 2.5

Date: 11-20-15

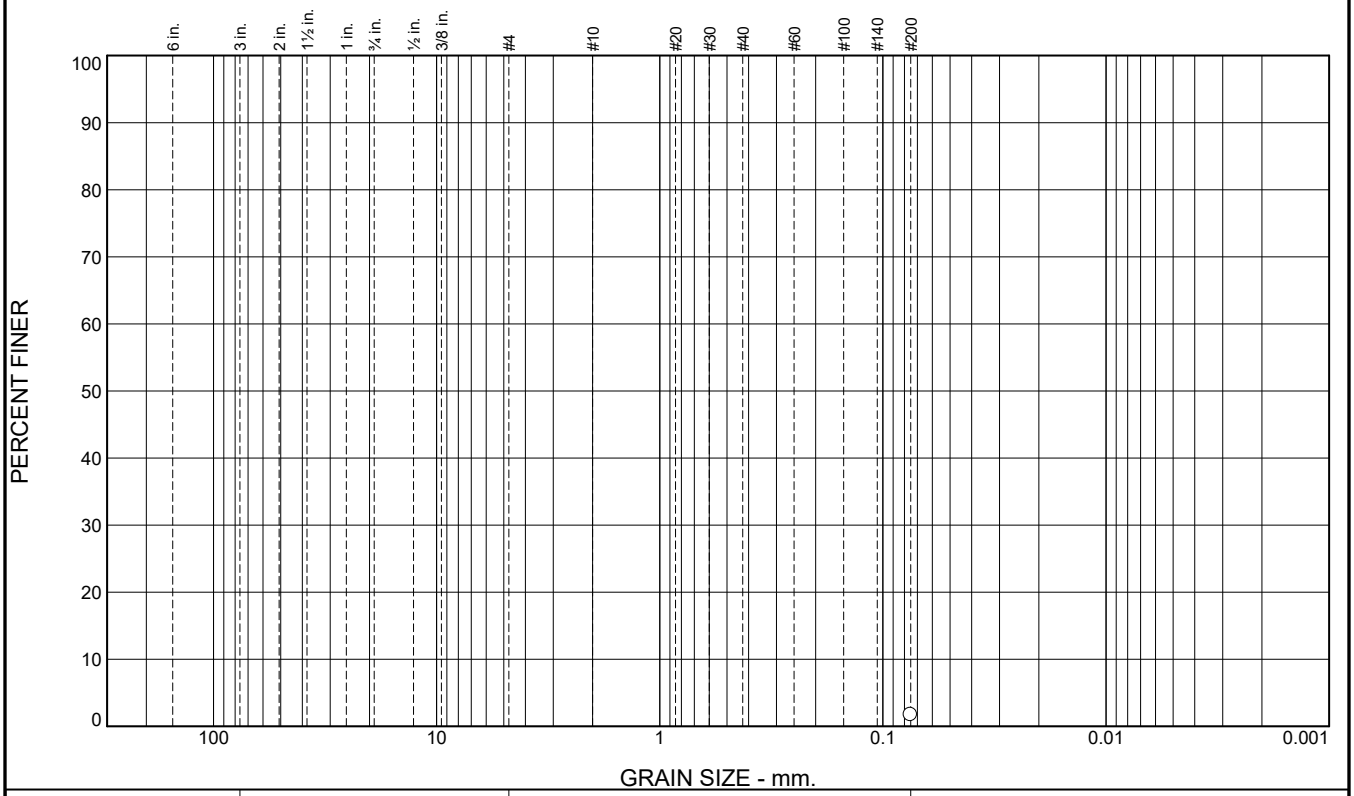
ENGEO INCORPORATED

Client: Brocchini Family Partnership
Project: Alma Place

Project No: 12618.000.000 **Figure**

Tested By: I. McCauley **Checked By:** K. Lecce

Particle Size Distribution Report



% +75mm	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
						1.7	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
#200	1.7		

* (no specification provided)

Material Description

See Exploratory Log

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= AASHTO=

Remarks

ASTM D1140

Sample Number: 1-B5 @ 10 **Depth:** 10

Date: 11-20-15

ENGEO INCORPORATED

Client: Brocchini Family Partnership
Project: Alma Place

Project No: 12618.000.000 **Figure**

Tested By: I. McCauley **Checked By:** K. Lecce

MOISTURE-DENSITY DETERMINATION
ASTM D7263

BORING ID:	1-B2	1-B3	1-B3	1-B3	1-B3	1-B3	1-B6	1-B6
DEPTH (ft.):	16.0	2.5	5.0	10.0	15.0	21.0	3.5	6.0
%MOISTURE CONTENT:	29.3	5.0	10.4	3.5	20.8	32.9	11.4	6.5
DENSITY (lbs/ft^3):	99.4							

BORING ID:	1-B6	1-B6	1-B6					
DEPTH (ft.):	10.8	15.0	20.0					
%MOISTURE CONTENT:	2.9	25.5	20.4					
DENSITY (lbs/ft^3):								

BORING ID:								
DEPTH (ft.):								
%MOISTURE CONTENT:								
DENSITY (lbs/ft^3):								

BORING ID:								
DEPTH (ft.):								
%MOISTURE CONTENT:								
DENSITY (lbs/ft^3):								

BORING ID:								
DEPTH (ft.):								
%MOISTURE CONTENT:								
DENSITY (lbs/ft^3):								

Testing remarks: ASTM D2216 D7283

PROJECT NAME: Alma Place
PROJECT NUMBER: 12618.000.000
CLIENT: Brocchini Fami;y Partnership
PHASE NUMBER: 001

DATE: 11/22/15

ENGEO INCORPORATED

Tested by: I. McCauley Reviewed by: K. Lecce

ENGEO Incorporated 580 N Wilma Suite A Ripon, CA 95366 Laboratory address: 3011 E. Palm Avenue Suite 104 Manteca, CA 95337

APPENDIX C

LIQUEFACTION ANALYSIS

APPENDIX C



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580 N Wilma, Suite A
Ripon, CA 95366

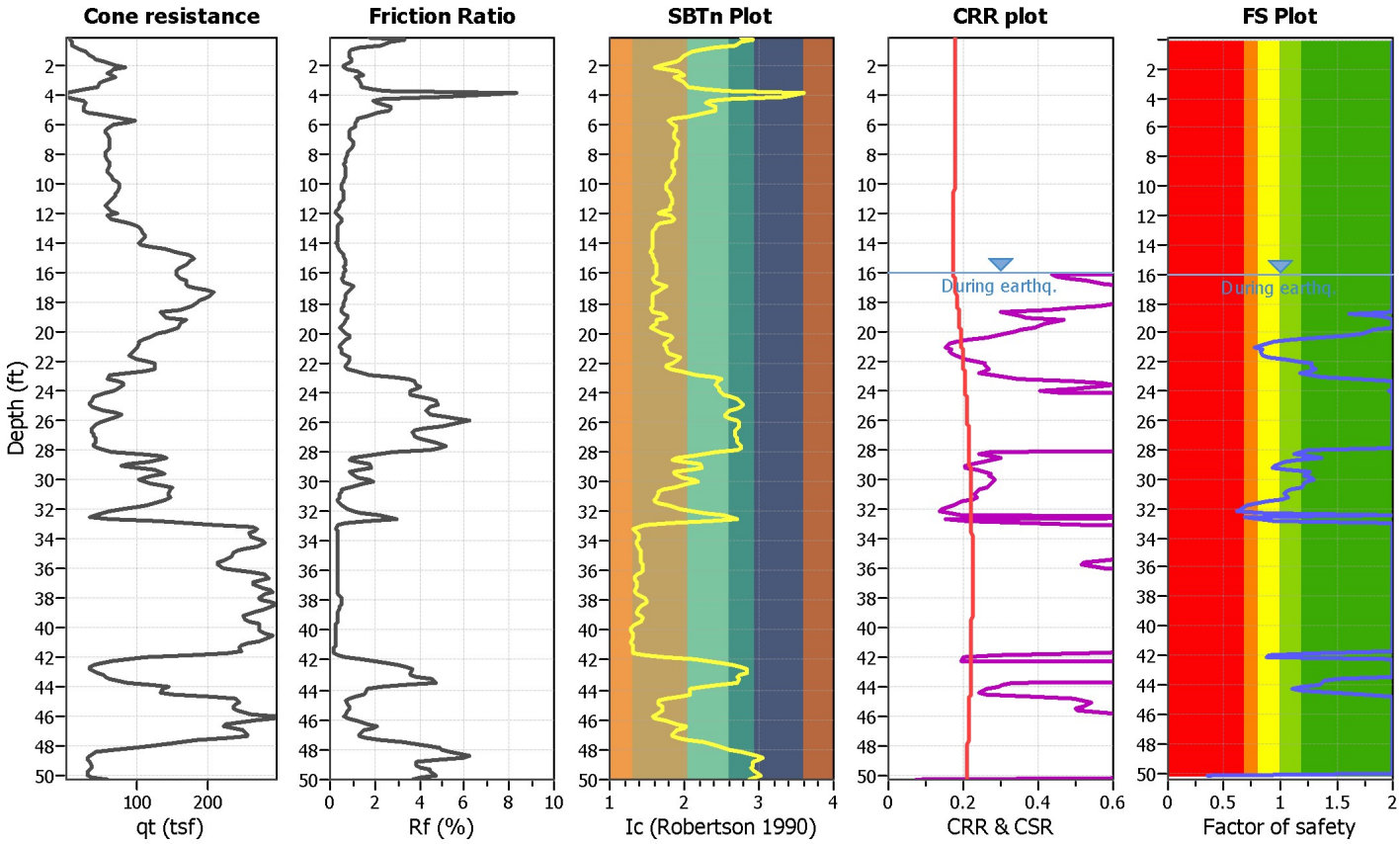
LIQUEFACTION ANALYSIS REPORT

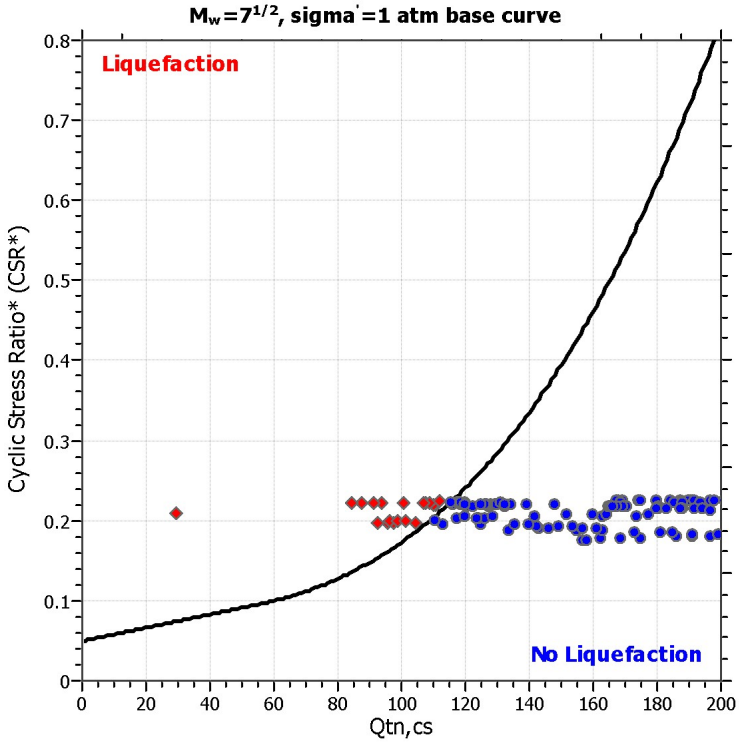
Project title : Alma Place **Location : Manteca, CA**

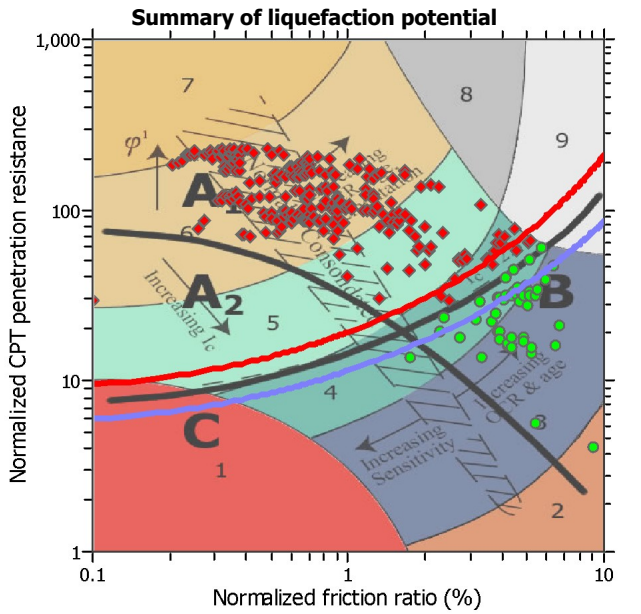
CPT file : CPT-1

Input parameters and analysis data

Analysis method:	Robertson (2009)	G.W.T. (in-situ):	16.00 ft	Use fill:	No	Clay like behavior applied:	All soils
Fines correction method:	Robertson (2009)	G.W.T. (earthq.):	16.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.37	Unit weight calculation:	Based on SBT	K_σ applied:	No		

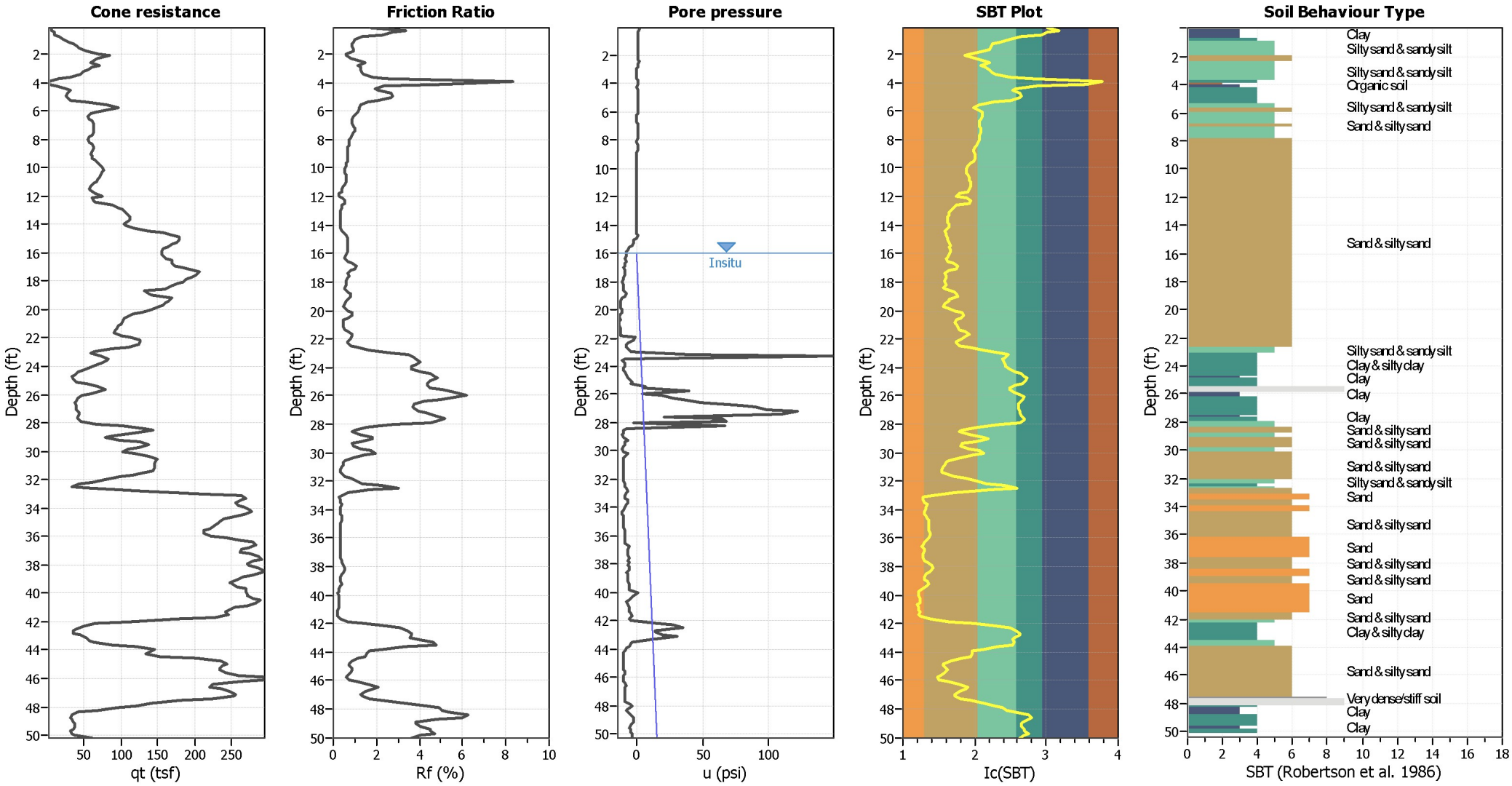






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



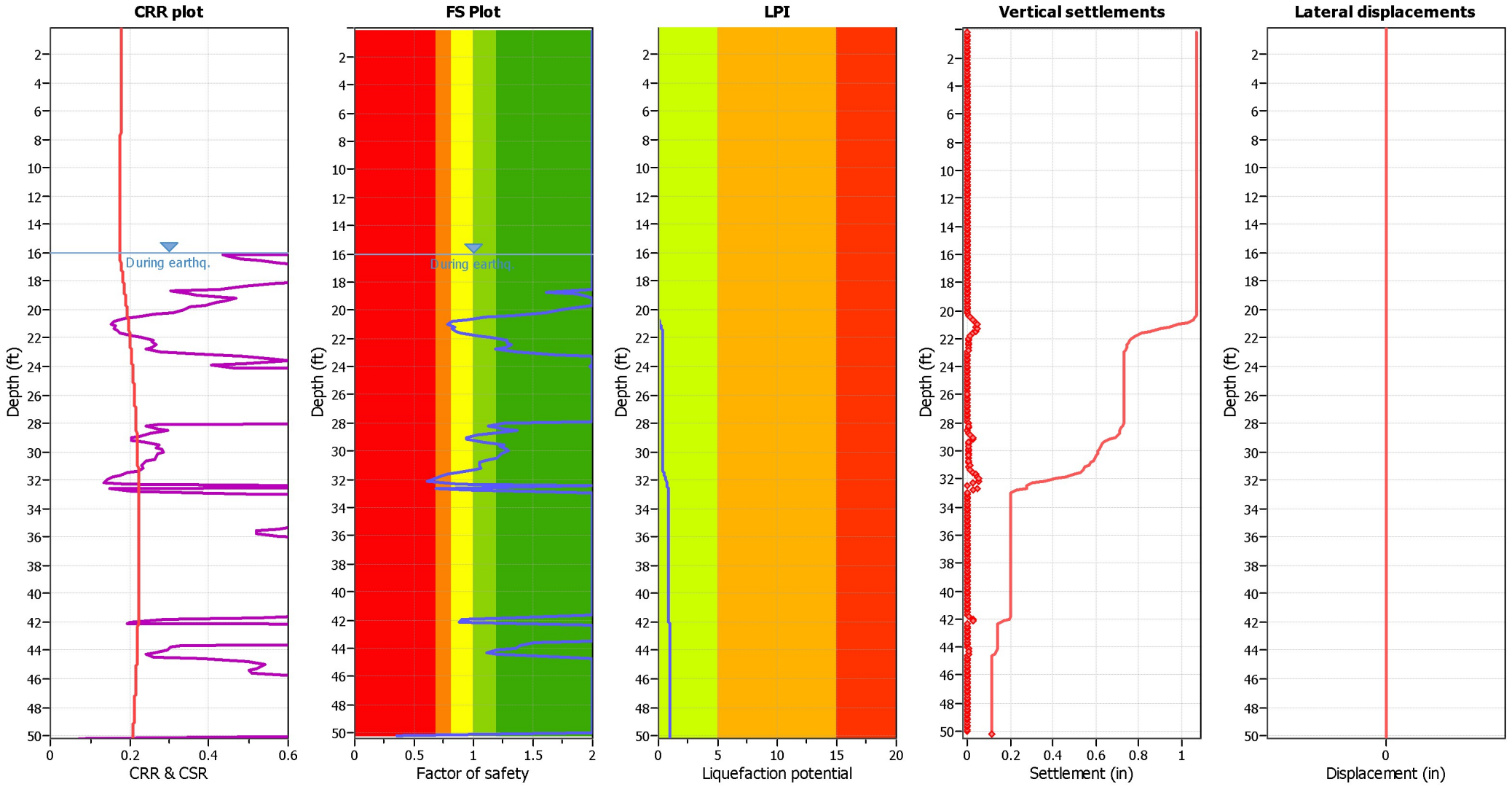
Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	16.00 ft	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.37	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	16.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
2. Organic material
3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	Robertson (2009)	Depth to water table (erthq.):	16.00 ft	Fill weight:	N/A
Fines correction method:	Robertson (2009)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	No
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	All soils
Peak ground acceleration:	0.37	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	16.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

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Ripon, CA 95366

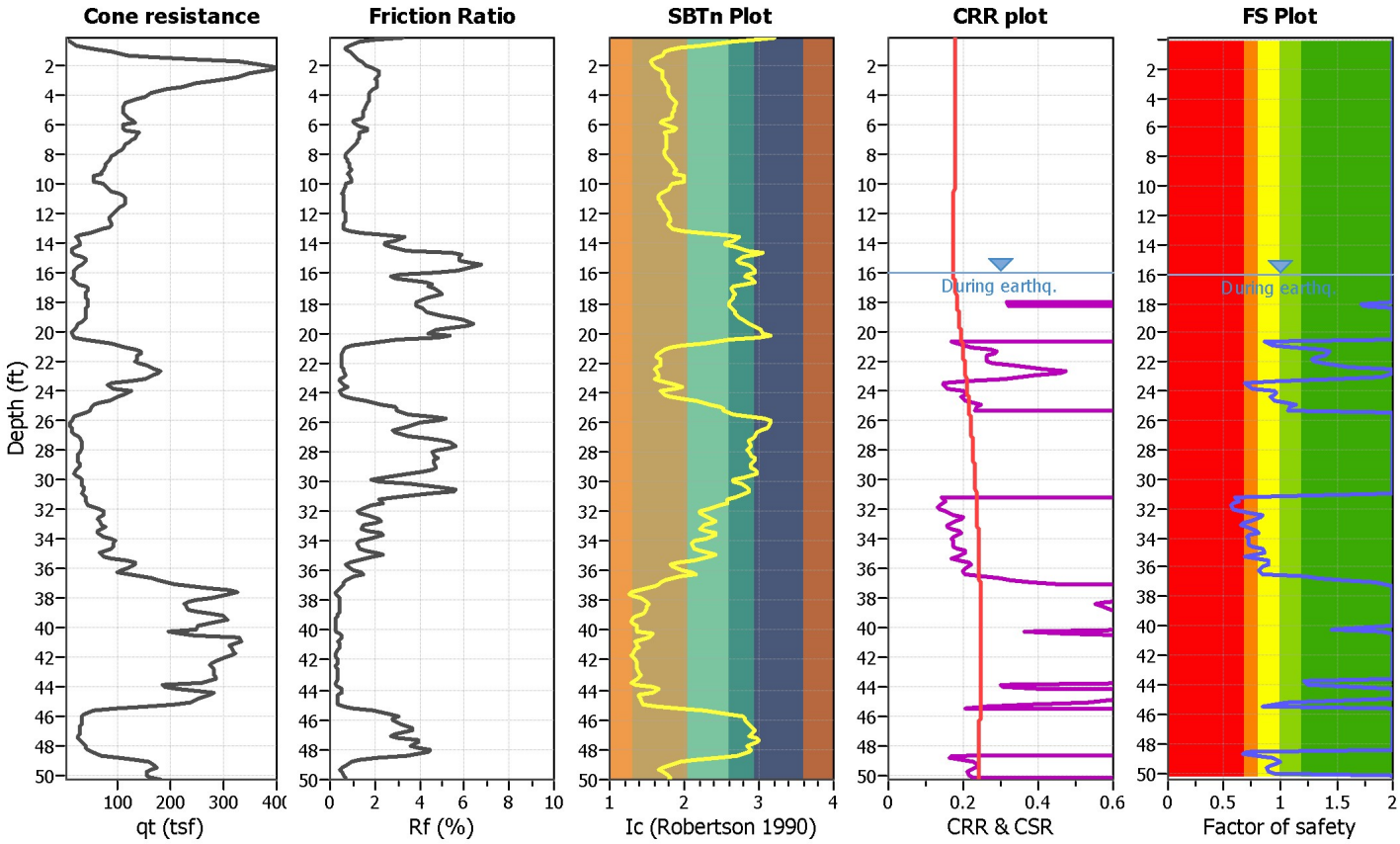
LIQUEFACTION ANALYSIS REPORT

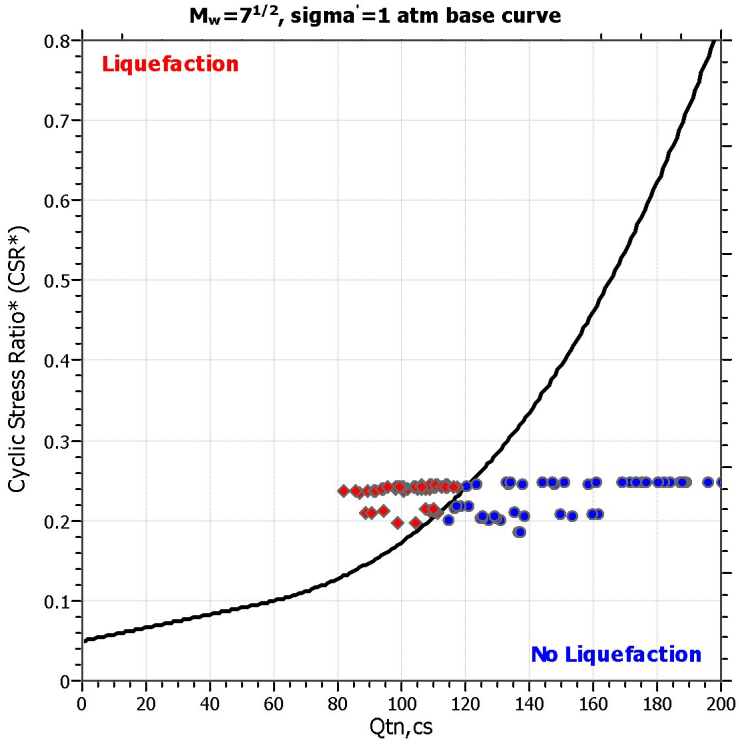
Project title : Alma Place **Location : Manteca, CA**

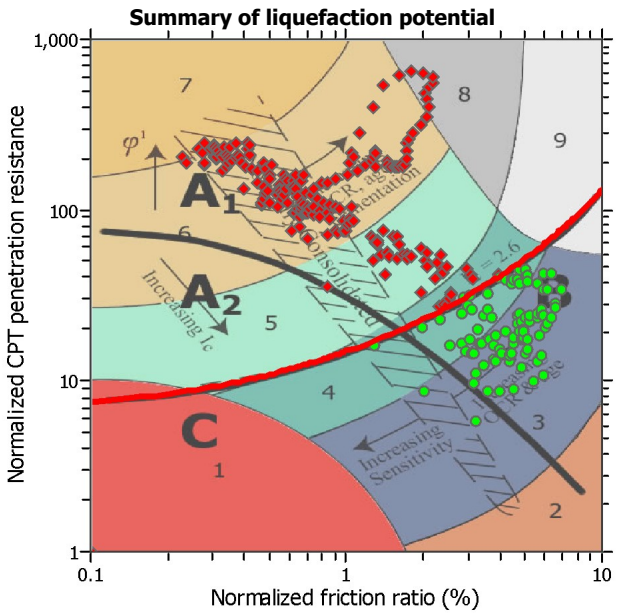
CPT file : CPT-2

Input parameters and analysis data

Analysis method:	NCEER (1998)	G.W.T. (in-situ):	16.00 ft	Use fill:	No	Clay like behavior applied:	Sands only
Fines correction method:	NCEER (1998)	G.W.T. (earthq.):	16.00 ft	Fill height:	N/A	Limit depth applied:	No
Points to test:	Based on Ic value	Average results interval:	3	Fill weight:	N/A	Limit depth:	N/A
Earthquake magnitude M_w:	6.70	Ic cut-off value:	2.60	Trans. detect. applied:	No	MSF method:	Method based
Peak ground acceleration:	0.37	Unit weight calculation:	Based on SBT	K_σ applied:	Yes		

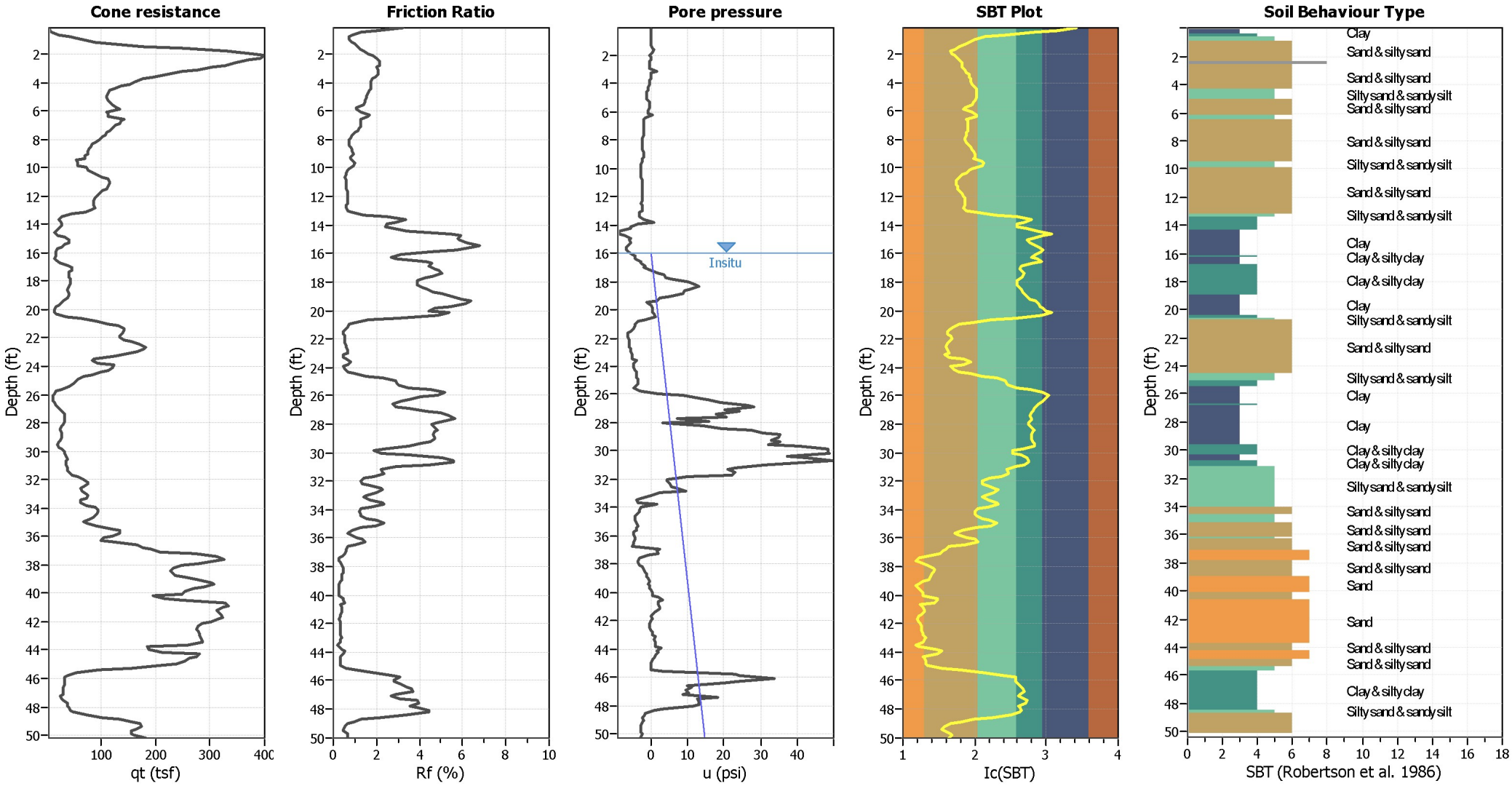






Zone A_1: Cyclic liquefaction likely depending on size and duration of cyclic loading
Zone A_2: Cyclic liquefaction and strength loss likely depending on loading and ground geometry
Zone B: Liquefaction and post-earthquake strength loss unlikely, check cyclic softening
Zone C: Cyclic liquefaction and strength loss possible depending on soil plasticity, brittleness/sensitivity, strain to peak undrained strength and ground geometry

CPT basic interpretation plots



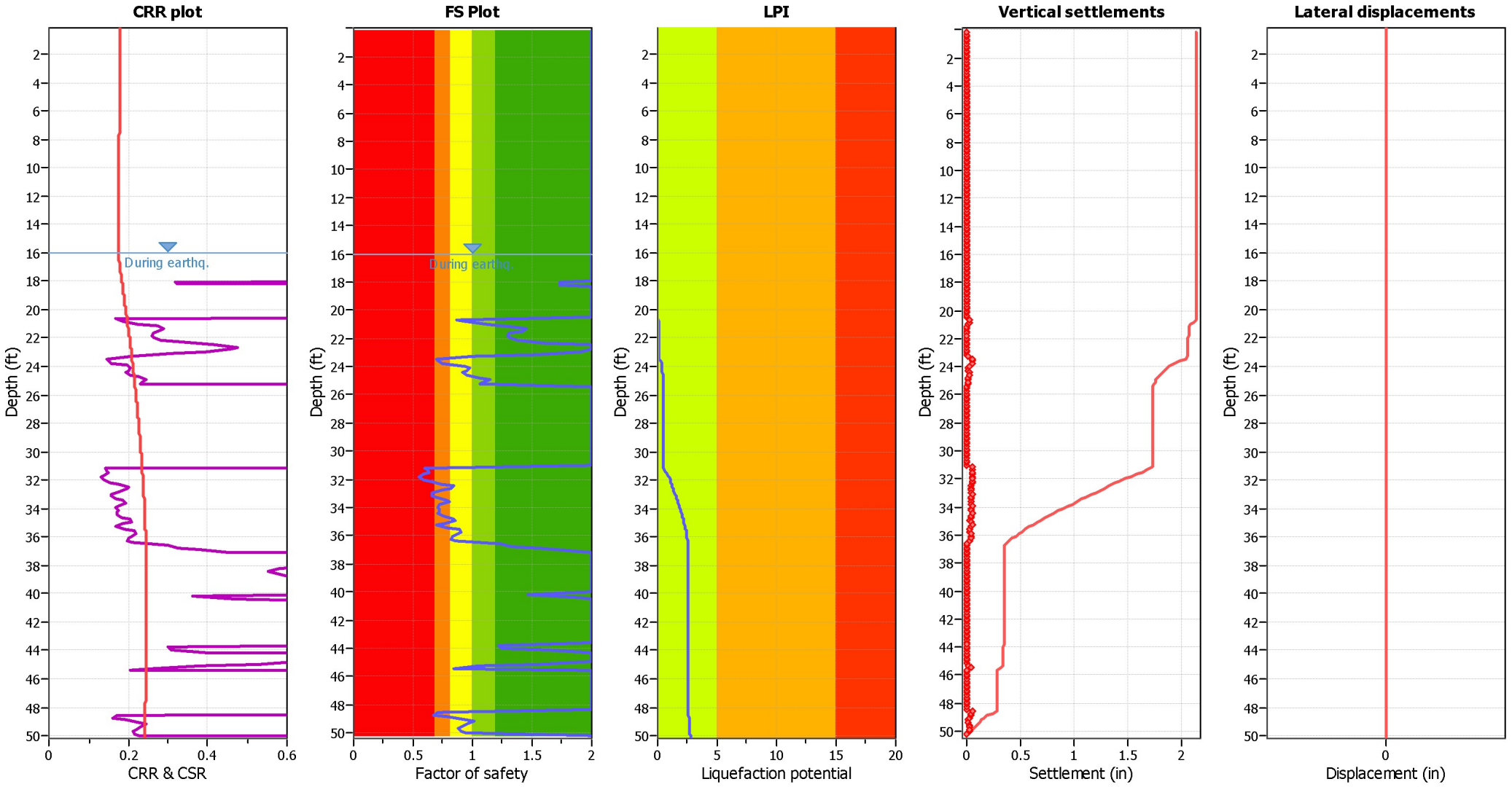
Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	16.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.37	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	16.00 ft	Fill height:	N/A	Limit depth:	N/A

SBT legend

1. Sensitive fine grained
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3. Clay to silty clay
4. Clayey silt to silty
5. Silty sand to sandy silt
6. Clean sand to silty sand
7. Gravely sand to sand
8. Very stiff sand to
9. Very stiff fine grained

Liquefaction analysis overall plots



Input parameters and analysis data

Analysis method:	NCEER (1998)	Depth to water table (erthq.):	16.00 ft	Fill weight:	N/A
Fines correction method:	NCEER (1998)	Average results interval:	3	Transition detect. applied:	No
Points to test:	Based on Ic value	Ic cut-off value:	2.60	K_σ applied:	Yes
Earthquake magnitude M_w:	6.70	Unit weight calculation:	Based on SBT	Clay like behavior applied:	Sands only
Peak ground acceleration:	0.37	Use fill:	No	Limit depth applied:	No
Depth to water table (insitu):	16.00 ft	Fill height:	N/A	Limit depth:	N/A

F.S. color scheme

- Almost certain it will liquefy
- Very likely to liquefy
- Liquefaction and no liq. are equally likely
- Unlike to liquefy
- Almost certain it will not liquefy

LPI color scheme

- Very high risk
- High risk
- Low risk

D.2 - 2019 CBC Seismic Design Parameter and Liquefaction Analysis Update

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Project No.
12618.001.001

November 18, 2021

Mr. Brett Leon
Alliance Reality Partners, LLC
477 Pacific Avenue
San Francisco, CA 94133

Subject: Prose Manteca
1563 West Yosemite Avenue
Manteca, California

2019 CBC SEISMIC DESIGN PARAMETER AND LIQUEFACTION ANALYSIS UPDATE LETTER

Dear Mr. Leon:

As requested, we prepared this letter for the Prose Manteca project located in Manteca, California. We previously provided the referenced geotechnical report for the subject property in December 2015. The purpose of this letter is to provide 2019 CBC seismic parameters and an updated liquefaction assessment. Our scope of services included a review of the referenced geotechnical report, limited analysis, and preparation of this letter.

The proposed development consists of approximately 420 units spread between 20 individual Type-V wood frame multifamily buildings. A community center is also planned. Associated improvements include a swimming pool, pavements, concrete flatwork, utilities, retaining walls, landscaped areas, trash enclosures, and pads for auxiliary equipment.

UPDATED SEISMIC PARAMETERS

Based on the subsurface conditions encountered, we characterized the site as Site Class D in accordance with the 2019 California Building Code (CBC). We provide the 2019 CBC seismic design parameters in Table 1 below, which include design spectral response acceleration parameters based on the mapped Risk-Targeted Maximum Considered Earthquake (MCER) spectral response acceleration parameters.

TABLE 1: 2019 CBC Seismic Design Parameters (Latitude: 37.7994, Longitude: -121.2427)

PARAMETER	VALUE
Site Class	D
Mapped MCE_R Spectral Response Acceleration at Short Periods, S_S (g)	0.802
Mapped MCE_R Spectral Response Acceleration at 1-second Period, S_1 (g)	0.302
Site Coefficient, F_A	1.179
Site Coefficient, F_V	Null*
MCE_R Spectral Response Acceleration at Short Periods, S_{MS} (g)	0.946
MCE_R Spectral Response Acceleration at 1-second Period, S_{M1} (g)	Null*
Design Spectral Response Acceleration at Short Periods, S_{DS} (g)	0.631

PARAMETER	VALUE
Design Spectral Response Acceleration at 1-second Period, S_{D1} (g)	Null*
Mapped MCE Geometric Mean (MCE_G) Peak Ground Acceleration, PGA (g)	0.334
Site Coefficient, F_{PGA}	1.266
MCEG Peak Ground Acceleration adjusted for Site Class effects, PGA_M (g)	0.423
Long period transition-period, T_L	8 sec

*Requires site-specific ground motion hazard analysis per ASCE 7-16 Section 11.4.8

Considering the proposed 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.

LIQUEFACTION ANALYSIS

We have performed an updated liquefaction analysis using the data collected in the two CPTs advanced at the site during our previous geotechnical exploration. We assumed a groundwater level of 14 feet below existing grade based on the groundwater level study conducted for the site (Reference 3). We used the mapped maximum considered earthquake (MCE) Geometric Mean Peak Ground Acceleration (PGAM) of 0.423 g, which is the mapped MCE PGAm based on the 2019 CBC for a Site Class D, and assumed a moment magnitude of 6.9 for our analyses to represent the highest level of ground shaking on the controlling faults. We utilized the software package CLiq version 2.2.1.4 by Geologismiki Geotechnical Software to evaluate liquefaction susceptibility from the CPT data. We performed our analyses using the methods outlined by Robertson (2009).

The results of our liquefaction analyses indicate interbedded sand and silty sand layers below the groundwater depth are potentially liquefiable. Consequences of liquefaction include surface disruption and settlement. Based on the analyses performed on the CPT data, we estimate up to approximately 2 inches of total liquefaction-induced settlement and 1 inch of differential settlement in a design-level seismic event. These results are consistent with the previous analysis discussed in Reference 1.

CLOSING

It is our opinion that the recommendations provided in the referenced geotechnical report is still applicable for the subject site with the addition of the supplemental recommendations provided in this letter.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Eleni Korogianos

Kevin McFadden, PE



Steve Harris, GE

ek/km/sh/dt

Attachment: Selected References

SELECTED REFERENCES

1. California Building Code, 2019.

2. ENGEO, Geotechnical Report, Alma Place; West Center, California; December 10, 2015; Project No. 12618.000.000.

3. ENGEO, Groundwater Level Study, Alma Place; West Center, California; December 15, 2016; Project No. 12618.000.000.

4. Robertson, P. K. and R. G. Campanella, 1988, Guidelines for Geotechnical Design Using CPT and CPTU Data.

5. Robertson, P.K., 2009, Interpretation of cone penetration tests - a unified approach, Canadian Geotechnical Journal 2009, vol. 46, pp. 1337-1355.

6. Seismic Design Web Services. U.S. Geological Survey.

D.3 - Paleo Records Search Results

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Kenneth L. Finger, Ph.D.
Consulting Paleontologist

18208 Judy St., Castro Valley, CA 94546-2306 510.305.1080 klfpaleo@comcast.net

February 18, 2022

Dana DePietro
FirstCarbon Solutions
1350 Treat Boulevard, Suite 380
Walnut Creek, CA 94597

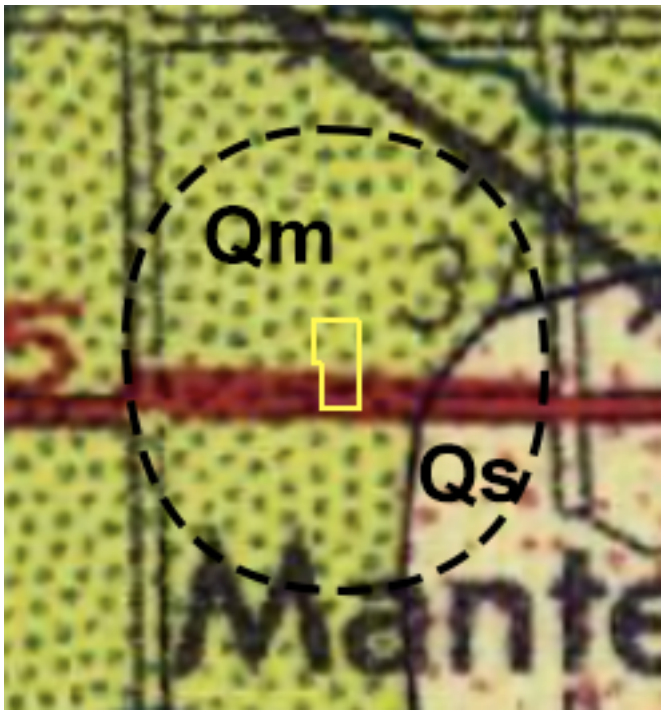
Re: Paleontological Records Search for the Prose Manteca Project (4338.0003), City of Manteca, San Joaquin County

Dear Dr. DePietro:

As per the request of Madelyn Dolan, I have performed a paleontological records search on the University of California Museum of Paleontology (UCMP) database for the Prose Manteca Project. The proposed site is flat agricultural land on the north side of Yosemite Avenue (SR120). Its Public Land Survey (PLS) location is W½, SW¼, SE¼, Sec. 31, T1S, R7E, Manteca quadrangle (USGS 7.5-series topographic map). The proposed project would include 420 multi-family residential units in approximately 20 three-story buildings, 746 surface parking spaces, 170,000 square feet of common open space, a community building with pool, and landscaping. Open space would include approximately 170,000 square feet.

Geologic Units

According to the part of the geologic map of Wagner et al. (1991) shown here, the surface of the entire project site (yellow outline at center) consists of the late Pleistocene Modesto Formation (Qm), a sedimentary unit that has the potential to contain significant paleontological resources. The surrounding half-mile search area (dashed black outline) also includes Holocene dune sands (Qs) that are too young to be fossiliferous.



UCMP Records Search

The database search focused on the Modesto Formation, for which there are nine vertebrate localities listed. Three of those localities are in San Joaquin County, where they were recorded from a recent construc-

tion project in Stockton (Haasl and Fisk, 2017), but their specimens have yet to be recorded in the database. The other six localities are in Stanislaus, Fresno, and Yolo counties, and are represented by 27 specimens representing the Rancholabrean North American Land Mammal Stage. The composite assemblage includes *Mammuthus columbi* (Columbian mammoth), *Bison latifrons* (long-horned bison), *Camelops* (camel), a microtine rodent (e.g., vole), and an unidentified reptile. The localities nearest to the project site are situated about seven miles to the north and southeast.

Remarks and Recommendations

The records search reveals that the Modesto Formation has a high sensitivity but low paleontological potential for those significant paleontological resources. Although a paleontological walkover survey of the project site is inappropriate due to its heavy disturbance by agricultural development, paleontological monitoring of all subsurface construction activities in the Modesto Formation is recommended.

Should any vertebrate remains (i.e., bones, teeth, or unusually abundant and well-preserved invertebrates or plants) be unearthed, the crew should not attempt to remove them**,** as they could be extremely fragile and therefore prone to crumbling, and to ensure their occurrence is properly recorded; instead, all work in the immediate vicinity of the discovery should be diverted at least 15 feet until a professional paleontologist assesses the find and, if deemed appropriate, salvages it in a timely manner. All recovered fossils should be deposited in an appropriate repository, such as the UCMP, where they will be properly curated and made accessible for future study.

Sincerely,



References Cited

Haasl, D.M, and Fisk, L.H., 2017, Paleontological mitigation report for the South Stockton Six-Lane Project in San Joaquin County, California. PaleoResources Consultants, Auburn.

Wagner, D.L., Bortugno, E.J., and McJunkin, R.D., 1991, Geologic map of the San Francisco-San Jose quadrangle, California, 1:250,000. California Division of Mines and Geology, Regional Geologic Map 5A.

Appendix E:
Phase I Environmental Site Assessment

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PROSE MANTECA
MANTECA, CALIFORNIA

MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

SUBMITTED TO
Mr. Brett Leon
Alliance Realty Partners, LLC
477 Pacific Avenue
San Francisco, CA 94133

PREPARED BY
ENGEO Incorporated

December 6, 2021

PROJECT NO.
12618.001.001

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ENGEO
Expect Excellence

Project No.
12618.001.001

December 6, 2021

Mr. Brett Leon
Alliance Realty Partners, LLC
477 Pacific Avenue
San Francisco, CA 94133

Subject: Prose Manteca
1563 West Yosemite Avenue
Manteca, California

MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

Dear Mr. Leon:

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 Society for Testing and Materials (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

Monica Kunzel

Jenna Keith, EIT

Jeffrey A. Adams, PhD, PE

mk/jk/jaa/dt

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APPENDIX H – California Laboratory Services, Analytical Data

APPENDIX I – Qualifications of Environmental Professional

EXECUTIVE SUMMARY

ENGEO conducted a modified phase I environmental site assessment for the property located at 1563 and 1625 West Yosemite Avenue in Manteca, California (Property). The Property is approximately 18.2 acres in area and is identified by Assessor's Parcel Numbers (APNs) 200-150-270-000 and 200-150-260-000.

The Property is currently vacant, commercially zoned land. Review of historical records indicates that the Property has remained undeveloped land since approximately 2011.

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.

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. The data gap identified during this process did not affect the conclusions as to the presence or lack of presence of RECs at the Property. The following data gap was identified.

- At the time of report publication, we had not received a response to our request for records from the San Joaquin County Fire Department.

This assessment has revealed no evidence of RECs in connection with the Property, and the Property is suitable for residential development.

1.0 INTRODUCTION

1.1 PURPOSE OF MODIFIED PHASE I ENVIRONMENTAL SITE ASSESSMENT

This assessment was performed at the request of Alliance Realty Partners, LLC for the purpose of environmental due diligence during property acquisition. The objective of this 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 previous environmental reports prepared for the Property.
- 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.
- 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 1563 West Yosemite Avenue in Manteca, California (Figures 1 and 2). The approximately 18.2-acre Property is identified as APNs 200-150-270-000 and 200-150-260-000 (Figure 3) and is currently vacant, commercially zoned land.

1.4 CURRENT USE OF PROPERTY AND ADJOINING PROPERTIES

The Property consists of the addresses 1625 and 1563 West Yosemite Avenue. Both parcels are undeveloped. Adjoining properties include medical facilities to the west, residential neighborhoods to the south and east, and a golf course to the north.

1.5 SITE AND VICINITY CHARACTERISTICS

According to published topographic maps, the Property elevation is approximately 30 feet above mean sea level (msl). The site is located in the Great Valley geomorphic province. The Great Valley is an elongated, northwest-trending structural trough bound by the Coast Ranges on the

west and the Sierra Nevada on the east. The Great Valley has been and is presently being filled with sediments primarily derived from the Sierra Nevada. Review of the CGS *Geologic Map of the San Francisco-San Jose Quadrangle* (Wagner, Bortugno, and McJunkin 1991) Geologic Map found that that near-surface geology consists of Holocene Dune Sand (Qs) underlain by Pleistocene-aged deposits of the Modesto formation (Qm) generally consisting of interbedded clay, silt, sand, and gravel.

ENGEO previously prepared a groundwater level study for the Property (see Section 2.0). Groundwater level measurements from one piezometer installed at the Property indicated that groundwater may be encountered at depths ranging between approximately 14 feet and 18.5 feet below the ground surface (bgs). We reviewed the Geocheck – Physical Setting Source Summary of the Environmental Data Resources, Inc. (EDR) report (Appendix A), which indicated 7 Federal United States Geological Survey (USGS) and 98 State wells are located within 1 mile of the Property. We also reviewed the Department of Water Resources On-line Water Data Library website, which identified several wells within 1 mile of the Property. However, neither source provided recent measurements of either groundwater depth or flow direction. Therefore, we reviewed EnviroStor, a website maintained by the State of California Department of Toxic Substances Control (DTSC), and GeoTracker, a website maintained by the State of California Water Resources Control Board (SWRCB), for nearby facilities with records that include groundwater measurements. The following information was obtained regarding local groundwater conditions. Groundwater flow direction appears variable with a small gradient within the vicinity of the Property.

TABLE 1.5-1: Local Groundwater Conditions

FACILITY	PROXIMITY TO PROPERTY	REPORTED DEPTH TO GROUNDWATER	REPORTED GROUNDWATER FLOW DIRECTION
Ted Peters Trucking Manteca Facility – 1985 West Yosemite Avenue	0.33 miles southwest	7 to 16 feet	West/southwest
Chevron #9-1848 – 1257 West Yosemite Avenue	0.40 miles southeast	11.3 to 21.7 feet	Northeast
Frank's One Stop – 2072 West Yosemite Avenue	0.50 miles southwest	12 to 14 feet	West-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 historical oil and/or gas wells were located within the Property. Three off-site wells were mapped within 1 mile of the Property. However, all are plugged dry holes.

2.0 PREVIOUS ENVIRONMENTAL REPORTS

ENGEO; Groundwater Level Study; Alma Place, West Center Street, Manteca, California; December 15, 2016.

We performed a groundwater level study for the subject Property to provide a design groundwater surface elevation. A groundwater data logger was installed in a piezometer located in the western area of the Property. The data logger collected continuous data between December 1, 2015 and December 13, 2016. The results showed groundwater depths ranging between approximately 14 feet and 18.5 feet bgs (elevations of 9 feet to 13.5 feet above the North American Vertical Datum of 1988 [NAVD88]).

3.0 RECORDS REVIEW

3.1 PROPERTY RECORDS

3.1.1 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.

A Preliminary Title Report for the Property, prepared by First American Title Company and dated August 23, 2021, was provided for our review. The Property title is vested in the Brocchini Family Partnership. No references to environmental liens, deed restrictions or other potential environmental issues were noted; however, the following lease and three easements are reported:

- An easement for right of way for a pipeline and incidental purposes, recorded September 7, 1961, in favor of the South San Joaquin Irrigation District.
- An oil and gas lease executed by Aldo Brocchini and Mabel Brocchini, Co-Trustees or the Successor Trustee, of The Aldo and Mabel Brocchini Trust, dated August 14, 1973 as lessor and Rushing Minerals, Inc., a California corporation as lessee, recorded September 8, 1981.
- An easement for water main and incidental purposes, recorded April 7, 1989 as Instrument No. 89030489 of Official Records; in favor of St. Joseph's Healthcare Corporation, a California corporation, and St. Joseph's Hospital of Stockton, a California corporation, d.b.a. St. Joseph's Medical Center of Stockton.
- An easement for water line and incidental purposes, recorded March 20, 1990 as Instrument No. 90027654 of Official Records. In favor of the City of Manteca.

The complete report is included in Appendix B.

3.2 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.

3.2.1 Historical Topographic Maps/Aerial Photographs/Sanborn Maps

Historical USGS topographic maps and aerial photographs were reviewed to determine if discernible changes pertaining to the Property had been recorded. EDR provided the following maps and photographs, presented in Appendices C and D. No Sanborn maps were identified for the Property; a copy of the Sanborn Map search report is presented in Appendix E.

TABLE 3.2.1-1: Historical Review Summary

HISTORIC MAP/PHOTOGRAPH	YEARS
Topographic Maps	1914, 1952, 1968, 1976, 1987, 1991, 1994, 1996, 2012
Aerial Photographs	1937, 1940, 1957, 1963, 1968, 1975, 1982, 2006, 2009, 2012, 2016
Sanborn Maps	N/A

The earliest coverage available for the Property is a 1914 topographic map. Yosemite Avenue and railroad tracks are depicted in their present-day location. No structures are depicted at the Property.

By 1937, several small buildings, likely houses and/or barns, appear in the southwestern corner of the Property. The Property appears under cultivation for agricultural use. A creek is adjacent to the northern border of the Property. The aerial photographs show evidence of both dry farming and irrigated farming.

A wastewater treatment plant was constructed circa 1940, approximately ¼-mile northeast of the site, and demolished circa 1996. The golf course that is presently located adjacent to the north side of the Property was constructed circa 1968.

Residential developments began to replace former agricultural areas surrounding the Property in the 1980s. By 2006, the Property appears vacant, with the exception of trees and possible small structures in the southwest corner. Residential and commercial/medical developments were constructed adjacent to the east and west sides of the Property, respectively. By 2009, the trees and structures no longer appear.

3.2.2 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 F. City directories listings for the Property addresses of 1563 and 1625 West Yosemite Avenue, as well as other nearby properties of potential environmental concern, are listed below.

TABLE 3.2.2-1: City Directory

YEAR	LISTINGS
1968	• 1524 West Yosemite Avenue – Bob's Garage Auto • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted
1973	• 1524 West Yosemite Avenue – Roy & Sons Auto Repair • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted • 1716 West Yosemite Avenue – Pete's Manteca Muffler
1978	• 1524 West Yosemite Avenue – Roy & Sons Transmission Service • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted • 1716 – Pete's Manteca Muffler
1981	• 1524 West Yosemite Avenue – Roy & Sons Body Shop / Transmission Service • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted • 1716 West Yosemite Avenue – Pete's Manteca Muffler
1985	• 1524 West Yosemite Avenue – Wayne's Auto Repair • 1554 West Yosemite Avenue – Daiwa Authorized Service Gas Mart • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted • 1716 West Yosemite Avenue – Pete's Manteca Muffler
1992	• 1512 West Yosemite Avenue – Muffler & Brake • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted • 1721 West Yosemite Avenue – Ace Custom Auto Shop
1995	• 1512 West Yosemite Avenue – Pete's Manteca Muffler • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted
2000	• 1512 West Yosemite Avenue – Pete's Muffler & Brake • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted
2005	• 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – William C. McConniel
2010	• 1512 West Yosemite Avenue – NorCal Muffler & Truck • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – William C. McConniel
2014	• 1512 West Yosemite Avenue – NorCal Muffler & Truck • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – occupant unknown
2017	• 1512 West Yosemite Avenue – NorCal Muffler & Truck • 1563 West Yosemite Avenue – unlisted • 1625 West Yosemite Avenue – unlisted

No additional information pertaining to the automotive facilities at 1512 and 1716 West Yosemite Avenue was available in the environmental record databases searched (Section 3.3.1.2). However, based on distance, these properties are not expected to pose an environmental concern to the Property.

3.3 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.

3.3.1 Environmental Records

3.3.1.1 Subject Property

The Property is not listed on Environmental Record source databases.

3.3.1.2 Other Properties

The following databases include facilities listed within the appropriate ASTM search distances of the Property on Environmental Records sources. Several properties of potential environmental concern are discussed below.

TABLE 3.3.1.2-1: Environmental Database Listings for Nearby Properties

FACILITY	STREET	DATABASES
Kaiser Permanente Medical Office Building Manteca	1721 West Yosemite Avenue	CERS, CERS HAZ WASTE, RCRA-LQG, RCRA NONGEN / NLR
Burns Gas Mart / Delta Bait & Tackle	1554 West Yosemite Avenue	EDR HIST AUTO, HIST UST
JK Transmission	1483 West Center Street, Apartment 81	EDR HIST AUTO
Kaiser Foundation Hospital Manteca / St. Dominic's Hospital	1777 West Yosemite Avenue	AST, CERS, CERS HAZ WASTE, CERS TANKS, RCRA-LQG, UST
St. Dominic's Hospital	1751 West Yosemite Avenue	CA FID UST, SWEEPS UST
Jackpot Food Mart / Colonial Energy CE 40134 (DBA Power Mart) / Tower Mart #886	1434 West Yosemite Avenue	CA FID UST, CERS, CERS HAZ WASTE, CERS TANKS, CORTESE, HAZNET, HIST CORTESE, HWTS, LUST, SWEEPS UST, UST

Kaiser Permanente Medical Office Building Manteca - 1721 West Yosemite Avenue
The Kaiser Permanente medical facility, located adjacent to the west of the Property, is listed in the CERS, CERS HAZ WASTE, RCRA-LQG, and RCRA NONGEN / NLR database pertaining to hazardous materials storage and disposal. Hazardous materials include ignitable waste, corrosive waste, organics, and heavy metals such as barium, chromium, mercury, selenium, and silver. The facility has received several violations, though they are primarily administrative in nature.

Burns Gas Mart / Delta Bait & Tackle - 1554 West Yosemite Avenue
Burns Gas Mart / Delta Bait & Tackle, located approximately 200 feet southeast of the Property, is listed in the EDR HIST AUTO and HIST UST databases. The HIST UST database indicates that the following underground storage tanks are registered with the property: an 8,000-gallon gasoline tank installed in 1973, a 12,000-gallon gasoline tank installed in 1973, and a 6,000-gallon gasoline tank installed in 1976. Delta Bait & Tackle is listed in the EDR HIST AUTO database in

1982 and 1983, but no additional information is provided. This address appears to be currently occupied by a self-storage facility.

Kaiser Foundation Hospital Manteca / St. Dominic's Hospital - 1777 West Yosemite Avenue
Kaiser Foundation Hospital Manteca / St. Dominic's Hospital, located more than 1/10 mile to the west of the Property, is listed in the AST, CERS, CERS HAZ WASTE, CERS TANKS, RCRA-LQG, and UST databases. The AST database does not identify the size or contents of the tank. The UST database listing indicates that an 8,000-gallon diesel fuel tank is or was registered with this facility. The RCRA-LQG database indicates that the facility handles ignitable, corrosive, and reactive waste; heavy metals; and other organic chemicals. The facility is listed as a "significant non-complier". The CERS, CERS HAZ WASTE, and CERS TANKS databases pertain to hazardous materials handling and storage. Multiple violations are identified, though they are primarily administrative in nature.

St. Dominic's Hospital – 1751 West Yosemite Avenue
St. Dominic's Hospital, located to the west of the Property, is listed in the CA FID UST and SWEEPS UST databases. The SWEEPS UST database identifies an 8,000-gallon diesel fuel tank that is or was registered with the facility. The CA FID UST database does not provide any additional pertinent information.

Jackpot Food Mart / Colonial Energy CE 40134 (DBA Power Mart) / Tower Mart #886 – 1434 West Yosemite Avenue
The Jackpot Food Mart facility, located approximately 800 feet southeast of the Property, is listed in the CA FID UST, CERS, CERS HAZ WASTE, CERS TANKS, CORTESE, HAZNET, HIST CORTESE, HWTS, LUST, SWEEPS UST, and UST databases. The LUST database listing indicates that a gasoline cleanup case was opened in 1991 and closed in 1997. The drinking water aquifer media was affected. No closure documents are provided on GeoTracker. The SWEEPS UST database lists six tanks in total: a 6,000-gallon regular unleaded fuel tank; an 8,000-gallon leaded fuel tank; two 10,000-gallon regular unleaded fuel tanks, and two 12,000-gallon regular unleaded fuel tanks. The CA FID UST, CORTESE, HIST CORTESE, CERS, and HWTS databases do not provide any additional pertinent information.

Satellite Housing – 280 and 282 North Airport Way
The satellite housing facility, located approximately 1/3 mile down gradient from the Property, is an inactive site enrolled in the DTSC Voluntary Cleanup Program (VCP) for oversight of cleanup of pesticide-contaminated soil. Surficial soil samples showed that the site has levels of chlordane near residential structures in concentrations exceeding the California Human Health Screening Levels.

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. Additionally, properties that are on the "Orphan Summary" list appear to be located beyond the ASTM recommended radius search criteria.

3.4 REGULATORY AGENCY FILES AND RECORDS

The following agencies were contacted pertaining to possible past development and/or activity at the Property address of 1625 West Yosemite Avenue. No files were available for 1563 West Yosemite Avenue.

TABLE 3.4-1: Regulatory Agency Records

NAME OF AGENCY	RECORDS REVIEWED
City of Manteca Building and Planning Department (Office of City Clerk)	Two building permit files were available for 1625 West Yosemite Avenue. These include a construction permit from November 1991 for a gas test and an application from August 2011 for a permit to demolish the barn and existing house and septic system.
City of Manteca Fire Department (Office of City Clerk)	We contacted the City of Manteca Fire Department; however, no records available for the Property.
San Joaquin County Department of Environmental Health	The San Joaquin County Department of Environmental Health returned four permits for 1625 West Yosemite Avenue. These include a permit from August 1986 for an addition to the existing septic system; a permit from June 1995 for an addition to the existing septic system; a permit from August 2011 for removal of a septic tank; and a permit from September 2011 for destruction of a well on the property. The well was filled and destroyed properly.
San Joaquin County Fire Department	We submitted a records request via email on October 1, 2021. As of the writing of this report, we had not received a response to our file review request.
San Joaquin County Assessor's Office	We reviewed parcel information from the San Joaquin County Assessor's Office. The property APNs and boundaries are consistent with the EDR radius map report.
California State Water Resources Control Board	We contacted SWRCB; however, no records were available for the Property. Additionally, we reviewed GeoTracker, the online resource for SWRCB. No records for the Property were available.
Department of Toxic Substances Control	We reviewed EnviroStor, the online resource for DTSC. No records for the Property were available.

3.5 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 five tests were conducted within the Property zip code, with one test exceeding the current EPA action level of 4 picocuries per liter (pCi/L)[1].

In accordance with ASTM E2600-15 (Tier 1) (*Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions*), there are potential petroleum hydrocarbon sources for vapor intrusion within 1/10 mile of the Property and one volatile organic compound (VOC) source within 1/3 mile of the Property; however, as discussed in Section 3.3.1.2, these facilities are not expected to pose an environmental risk to the Property.

[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).

4.0 SITE RECONNAISSANCE

4.1 METHODOLOGY

ENGEO conducted a reconnaissance of the Property on Friday, November 5, 2021. The reconnaissance was performed by Eleni Korogianos, a Staff Engineer 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.

4.2 EXTERIOR OBSERVATIONS

The following table summarizes our observations during the reconnaissance:

TABLE 4.2-1: Exterior Site Observations

FEATURE TYPE	OBSERVATIONS
Structures	No structures were observed during the site reconnaissance.
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)	No above-ground storage tanks or evidence of existing underground storage tanks was observed during the site reconnaissance.
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.
Hazardous Substances and Petroleum Product Containers	No hazardous substance or petroleum product containers were observed on the Property at the time of our reconnaissance.
Pits, Ponds, and Lagoons	No pits, ponds, or lagoons were observed within the Property at the time of our reconnaissance.
Stained Soil/Pavement	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	No disposal of solid waste was observed at the Property.
Stockpiles/Fill Material	No 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	City records indicate that the well was abandoned and destroyed on the Property in 2011.
Septic Systems	No septic systems were observed on the Property. City records for the Property indicate that two extensions for a septic system

FEATURE TYPE	OBSERVATIONS
	were granted in 1986 and 1995. A third record indicated that the septic tank was removed in 2011.

4.3 ASBESTOS, LEAD, AND PCB-CONTAINING MATERIALS

An asbestos, lead, and PCB-containing building material survey was not conducted as part of this assessment, as there are no structures present at the Property.

5.0 INTERVIEWS

Ms. Lori Mackey of Brocchini Management Corporation completed Client-based and Key Site manager-based environmental site questionnaires pertaining to user-related applicable environmental information regarding the Property. In the questionnaires, Ms. Mackey did not identify potentially environmentally related issues with the Property.

Ms. Mackey is unaware of commonly known, reasonably ascertainable, or specialized knowledge indicative of releases or threatened releases that is material to the potential presence of RECs. Ms. Mackey has indicated that the purchase price of the Property is reflective of fair market value of the Property.

The questionnaires are presented in their entirety in Appendix G.

6.0 AGRICHEMICAL ASSESSMENT

The Property historically has been used for agricultural purposes, including the potential cultivation of dry crops and irrigated crops. Residual pesticides may be present on the Property. Organochlorine pesticides (OCPs) were first introduced into California agriculture in 1944 and reached peak usage in the 1960s. 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 OCPs, arsenic, and lead.

6.1 SOIL SAMPLING

Soil samples were collected on November 17, 2021, from 28 locations across the Property (Figure 2). Soil samples were collected from 3 to 9 inches below the surface of the existing grade. The 28 soil samples were collected using 8-ounce glass jars. 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 Cordova, California. Laboratory analysis of the soil samples included the following target analytes.

- OCPs (EPA Method 8081) – seven composited sample using each shallow (3- to 9-inch-deep) sample
- Arsenic (EPA Method 6010B) – seven discrete samples
- Lead (EPA Method 6010B) – seven discrete samples

6.2 ANALYTICAL RESULTS

Lead concentrations ranged from 2.6 to 25 milligrams per kilogram (mg/kg), which are below the applicable USEPA and CAL-EPA screening levels of 80 mg/kg for residential soil. Arsenic and organochlorine pesticides were not detected in the analytical results.

The laboratory report is presented in its entirety in Appendix H.

7.0 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 ASTM search distances that would reasonably be expected to impact the Property.

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 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.

This assessment has revealed no evidence of RECs in connection with the Property, and the Property is suitable for residential development.

8.0 LIMITATIONS

8.1 SIGNIFICANT ASSUMPTIONS OR DEVIATIONS FROM ASTM STANDARD PRACTICE

There were no significant deviations from ASTM Standard 1527-13 in the preparation of this report.

8.2 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. The data gap identified during this process did not affect the conclusions as to the presence or lack of presence of RECs at the Property. The following data gap was identified.

- At the time of report publication, we had not received a response to our request for records from the San Joaquin County Fire Department.

8.3 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 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 a 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.

8.4 SPECIAL TERMS AND CONDITIONS

ENGEO has prepared this report for the exclusive use of our client, Alliance Realty Partners, LLC. 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, 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

Google Maps (http://maps.google.com)

ENGEO; Geotechnical Report; Alma Place; Manteca, California; December 10, 2015; Project No. 12618.000.000.

ENGEO; Groundwater Level Study; Alma Place; Manteca, California; December 15, 2016; Project No. 12618.000.000.

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)

Wagner D.L., Bortugno E.J., and. McJunkin R.D, Compilation; 1991, Geologic Map of the San Francisco-San Jose Quadrangle, California 1:250,000.



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: GOOGLE MAPPING SERVICE 2021

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ENGEO Expect Excellence

VICINITY MAP

PROSE MANTECA

MANTECA, CALIFORNIA

PROJECT NO. :	12618.001.001
SCALE:	AS SHOWN
DRAWN BY: QRL	CHECKED BY: SPM

FIGURE NO. 1

PATH: G:\DRAFTING\PROJECTS_12000 TO 13999\12618\12618001001\ENVIRONMENTAL\ESA\PROSE MANTECA.APRX
LAYOUT: VICINITY USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



N

0 100 200

FEET

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE

AGRICULTURE SAMPLE LOCATION (ENGEO, 2021)

BASEMAP SOURCE: GOOGLE MAPPING SERVICE 2021

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SITE PLAN

PROSE MANTECA

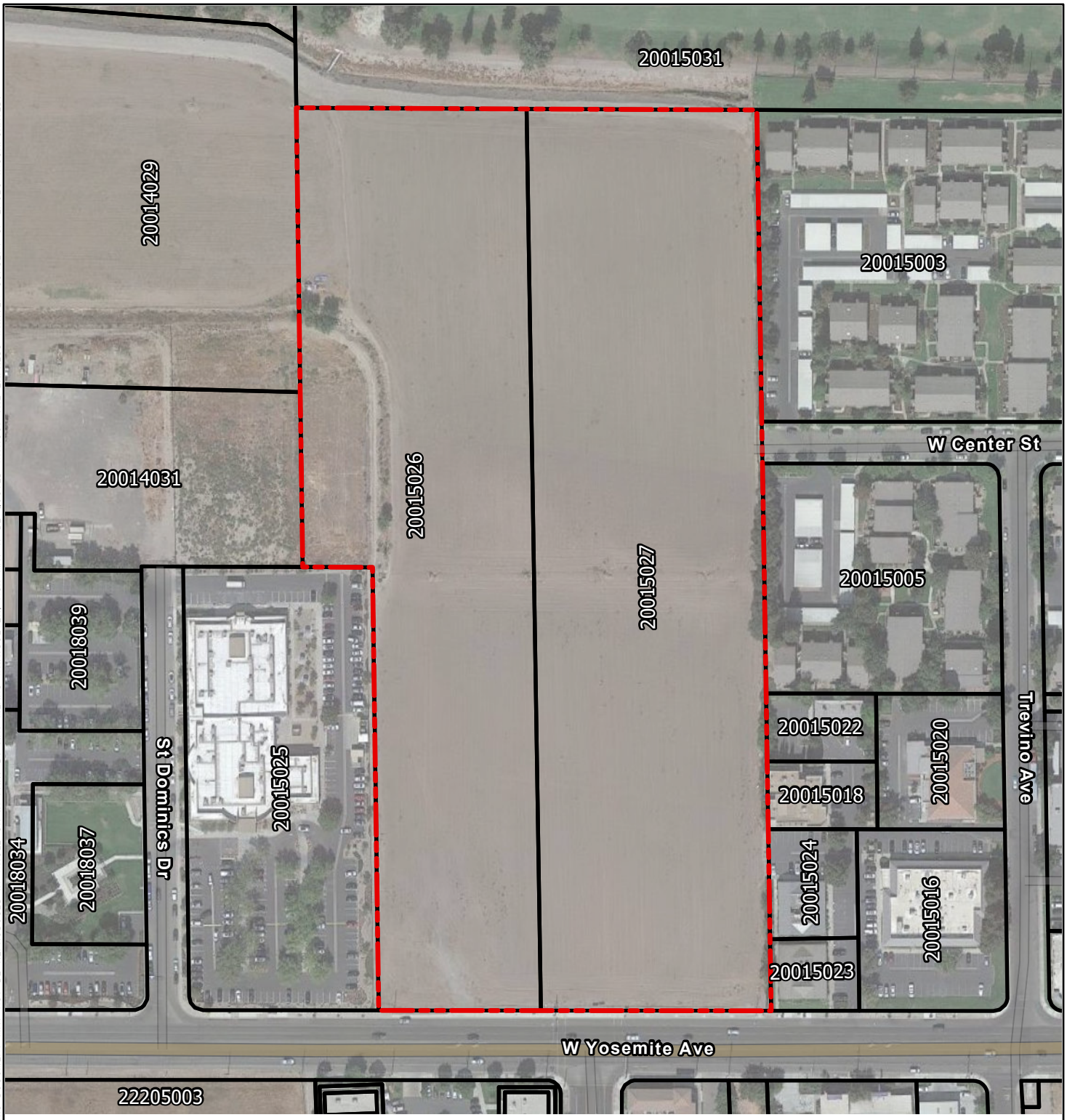
MANTECA, CALIFORNIA

PROJECT NO. :	12618.001.001
SCALE:	AS SHOWN
DRAWN BY: QRL	CHECKED BY: SPM

FIGURE NO. 2

PATH: G:\DRAFTING\PROJECTS_12000 TO 13999\12618\12618001001\ENVIRONMENTAL\ESA\PROSE MANTECA.APRX
LAYOUT: SITE PLAN USER: JVERGARA

ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

PROJECT SITE

PARCEL BOUNDARY

N

0 100 200

FEET

BASEMAP SOURCE: GOOGLE MAPPING SERVICE 2021

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ASSESSOR'S PARCEL MAP

PROSE MANTECA

MANTECA, CALIFORNIA

PROJECT NO. :	12618.001.001
SCALE:	AS SHOWN
DRAWN BY: QRL	CHECKED BY: SPM

FIGURE NO. 3

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PATH: G:\DRAFTING\PROJECTS_12000 TO 13999\12618\12618001001\ENVIRONMENTAL\ESA\PROSE MANTECA.APRX
USER: QLIANG

ORIGINAL FIGURE PRINTED IN COLOR



SOUTHERN PERIMETER OF THE PROPERTY ALONG WEST YOSEMITE AVENUE



VIEW OF PROPERTY FROM SOUTHWEST CORNER OF PROPERTY



WESTERN PERIMETER OF PROPERTY FROM WEST YOSEMITE AVENUE



DRAINAGE DITCH ON WESTERN PORTION OF PROPERTY



AGRICULTURAL MANHOLES RUNNING WEST TO EAST ACROSS THE PROPERTY



VIEW OF PROPERTY FROM NORTHWEST CORNER OF PROPERTY

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SITE PHOTOGRAPHS
PROSE MANTECA
MANTECA, CALIFORNIA

PROJECT NUMBER: **12618.001.001**		FIGURE NO. 4A
SCALE: **NO SCALE**		
DRAWN BY: **QRL**	CHECKED BY: **SPM**	

ORIGINAL FIGURE PRINTED IN COLOR



DRAINAGE DITCH NORTH OF NORTHERN PERIMETER OF PROPERTY



ACCESS ROAD AND DRAINAGE WEST OF PROPERTY



GOLF COURSE NORTH OF PROPERTY



HOUSES EAST OF PROPERTY

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SITE PHOTOGRAPHS
PROSE MANTECA
MANTECA, CALIFORNIA

PROJECT NUMBER: **12618.001.001**			FIGURE NO. 4B
SCALE: **NO SCALE**			
DRAWN BY: **QRL**	CHECKED BY: **SPM**		

ORIGINAL FIGURE PRINTED IN COLOR



MANHOLE ON EASTERN PERIMETER OF PROPERTY



TOP OF MANHOLE



PROTRUDING PIPE ON EASTERN PORTION OF PROPERTY



FENCED OFF WESTERN PORTION OF PROPERTY

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SITE PHOTOGRAPHS
PROSE MANTECA
MANTECA, CALIFORNIA

PROJECT NUMBER: **12618.001.001**			FIGURE NO. 4C
SCALE: **NO SCALE**			
DRAWN BY: **QRL**	CHECKED BY: **SPM**		

ORIGINAL FIGURE PRINTED IN COLOR



APPENDIX A

ENVIRONMENTAL DATA RESOURCES, INC.

Radius Map Report

Prose Manteca
1563 West Yosemite Avenue
Manteca, CA 95337

Inquiry Number: 06686940.2r
October 01, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

1563 WEST YOSEMITE AVENUE
MANTECA, CA 95337

COORDINATES

Latitude (North):	37.7992660 - 37° 47' 57.35''
Longitude (West):	121.2423230 - 121° 14' 32.36''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	654749.0
UTM Y (Meters):	4184793.5
Elevation:	28 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5640398 MANTECA, CA
Version Date:	2012
West Map:	5640064 LATHROP, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140628
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
1563 WEST YOSEMITE AVENUE
MANTECA, CA 95337

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	KAISER PERMANENTE ME	1721 W YOSEMITE AVEN	RCRA-LQG	Higher	131, 0.025, SW
A2	KAISER MANTECA	1721 W. YOSEMITE AVE	RCRA-LQG	Higher	131, 0.025, SW
A3	KAISER MANTECA	1721 WEST YOSEMITE	RCRA NonGen / NLR	Higher	131, 0.025, SW
A4	KAISER PERMANENTE	1721 W YOSEMITE AVE	CERS HAZ WASTE, CERS	Higher	131, 0.025, SW
B5	BURNS GAS MART	1554 W YOSEMITE	HIST UST	Higher	191, 0.036, SSE
B6	DELTA BAIT & TACKLE	1554 W YOSEMITE	EDR Hist Auto	Higher	191, 0.036, SSE
7	JK TRANSMISSION	1483 W CENTER ST APT	EDR Hist Auto	Higher	433, 0.082, ENE
C8	GOODWILL (MANTECA #2	1477 W YOSEMITE AVE	CERS HAZ WASTE, HWTS	Higher	448, 0.085, ESE
C9	GOODWILL INDUSTRIES	1477 W YOSEMITE AVE	RCRA NonGen / NLR	Higher	448, 0.085, ESE
10	JOHN C. TRUEB DDS	165 SAINT DOMINIC DR	RCRA NonGen / NLR	Lower	499, 0.095, West
D11	KAISER FOUNDATION -	1777 W YOSEMITE AVE	AST	Higher	554, 0.105, WSW
D12	KAISER FOUNDATION -	1777 W YOSEMITE AVE	UST	Higher	554, 0.105, WSW
D13	KAISER FOUNDATION HO	1777 W YOSEMTE AVENU	RCRA-LQG	Higher	554, 0.105, WSW
D14	ST DOMINIC'S HOSPITA	1777 YOSEMITE AVE	UST	Higher	554, 0.105, WSW
15	JOHN'S MOBILE	1575 MARINO CT	RCRA NonGen / NLR	Higher	634, 0.120, South
D16	KAISER FOUNDATION -	1777 W YOSEMITE AVE	CERS HAZ WASTE, CERS TANKS, CERS	Higher	700, 0.133, WSW
D17	ST. DOMINIC'S HOSPIT	1751 W YOSEMITE AVE	CA FID UST	Higher	701, 0.133, WSW
D18	ST. DOMINIC'S HOSPIT	1751 W YOSEMITE AVE	SWEEPS UST	Higher	701, 0.133, WSW
19	FUEL FILTRATION WEST	1406 W CENTER ST	RCRA NonGen / NLR, FINDS, ECHO	Higher	707, 0.134, East
20	SAVEMART SUPERMARKET	1431 W YOSEMITE AVE	RCRA NonGen / NLR	Higher	768, 0.145, ESE
E21	H&S ENERGY PRODUCTS	1434 W YOSEMITE AVE	RCRA NonGen / NLR	Higher	812, 0.154, SE
E22	JACKPOT FOOD MART	1434 YOSEMITE AVE W	LUST, SWEEPS UST, CA FID UST, Cortese, HAZNET,...	Higher	819, 0.155, SE
E23	COLONIAL ENERGY CE 4	1434 W YOSEMITE AVE	UST	Higher	819, 0.155, SE
E24	TOWER MART #886	1434 W YOSEMITE AVE	CERS HAZ WASTE, CERS TANKS, HAZNET, CERS, HWTS	Higher	819, 0.155, SE
E25	JACKPOT FOOD MART*	1434 YOSEMITE AVE	UST	Higher	819, 0.155, SE
E26	MANTECA MIDAS	1412 W YOSEMITE AVE	RCRA NonGen / NLR	Higher	941, 0.178, ESE
F27	PNS BIG LOTS #4617	1321 W YOSEMITE AVE	RCRA NonGen / NLR	Higher	1157, 0.219, ESE
F28	BIG LOTS MANTECA 461	1321 WEST YOSEMITE A	CERS HAZ WASTE, CERS	Higher	1157, 0.219, ESE
29	CHEVRON #9-1848	1257 YOSEMITE	LUST, Cortese, HIST CORTESE, CERS	Higher	1575, 0.298, ESE
G30	TED PETERS TRUCKING	1985 W YOSEMITE	CPS-SLIC, SWEEPS UST, CA FID UST, CERS	Lower	1724, 0.327, WSW
G31	TED PETERS TRUCKING	1985 YOSEMITE AVE W	LUST, CPS-SLIC, Cortese, HIST CORTESE, CERS	Lower	1724, 0.327, WSW
32	SATELLITE HOUSING	280 AND 282 N. AIRPO	ENVIROSTOR, VCP	Lower	1744, 0.330, West
33	MANTECA CITY DUMP	305 N. UNION ROAD, M	SWF/LF, CERS	Higher	1951, 0.370, ENE
34	PAYLESS SHOE STORE	1160 YOSEMITE AVE W	LUST, Cortese, CERS	Higher	2047, 0.388, ESE
H35	GO GREEN RECYCLING I	2066 W YOSEMITE AVE	SWRCY, NPDES	Lower	2230, 0.422, WSW
H36	FRANK'S EXXON #3	2072 YOSEMITE	LUST, Cortese, HIST CORTESE	Lower	2321, 0.440, WSW
37	GORDON RESEARCH COMP	1085 SOUTH UNION ROA	RESPONSE, ENVIROSTOR, LIENS, CERS	Higher	3788, 0.717, SSE
I38	QUICK STOP #121	1196 LOUISE AVE W	LUST, Cortese, HIST CORTESE, Notify 65, CERS	Higher	4422, 0.837, NNE
I39	MCPARLAND ANNEX	LOUISE AVENUE/UNION	ENVIROSTOR, SCH, CERS	Higher	4565, 0.865, NNE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-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 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
INDIAN UST ..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

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
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System

CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

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
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
ECHO	Enforcement & Compliance History Information
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
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)
MINES MRDS Mineral Resources Data System
HWTS Hazardous Waste Tracking System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
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.

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.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there are 3 RCRA-LQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER PERMANENTE ME	1721 W YOSEMITE AVEN	SW 0 - 1/8 (0.025 mi.)	A1	9
KAISER MANTECA EPA ID:: CAL000249558	1721 W. YOSEMITE AVE	SW 0 - 1/8 (0.025 mi.)	A2	12
KAISER FOUNDATION HO EPA ID:: CAR000157727	1777 W YOSEMTE AVENU	WSW 0 - 1/8 (0.105 mi.)	D13	36

State- and tribal - equivalent NPL

RESPONSE: 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.

A review of the RESPONSE list, as provided by EDR, has revealed that there is 1 RESPONSE site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GORDON RESEARCH COMP	***1085 SOUTH UNION ROA***	***SSE 1/2 - 1 (0.717 mi.)***	***37***	***174***
Database: RESPONSE, Date of Government Version: 04/23/2021 Status: Certified Facility Id: 60000746 Facility Id: 60002130				

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 04/23/2021 has revealed that there are

3 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GORDON RESEARCH COMP	***1085 SOUTH UNION ROA***	***SSE 1/2 - 1 (0.717 mi.)***	***37***	***174***
Facility Id: 60002130				
Facility Id: 60000746				
Status: Certified				
MCPARLAND ANNEX	***LOUISE AVENUE/UNION***	***NNE 1/2 - 1 (0.865 mi.)***	***I39***	***197***
Facility Id: 39010024				
Status: No Further Action				

Lower Elevation	Address	Direction / Distance	Map ID	Page
SATELLITE HOUSING	***280 AND 282 N. AIRPO***	***W 1/4 - 1/2 (0.330 mi.)***	***32***	***137***
Facility Id: 60000626				
Status: Inactive - Action Required				

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

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MANTECA CITY DUMP	***305 N. UNION ROAD, M***	***ENE 1/4 - 1/2 (0.370 mi.)***	***33***	***139***
Database: SWF/LF (SWIS), Date of Government Version: 05/10/2021				
Facility ID: 39-CR-0024				
Operational Status: Closed				
Regulation Status: Pre-regulation				

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
JACKPOT FOOD MART	***1434 YOSEMITE AVE W***	***SE 1/8 - 1/4 (0.155 mi.)***	***E22***	***77***
Database: LUST REG 5, Date of Government Version: 07/01/2008				
Database: LUST, Date of Government Version: 06/03/2021				
Status: Completed - Case Closed				
Status: Case Closed				
Global Id: T0607700531				
CHEVRON #9-1848	***1257 YOSEMITE***	***ESE 1/4 - 1/2 (0.298 mi.)***	***29***	***130***
Database: LUST REG 5, Date of Government Version: 07/01/2008				
Database: LUST, Date of Government Version: 06/03/2021				

Status: Completed - Case Closed
Status: Leak being confirmed
Global Id: T0607700493

PAYLESS SHOE STORE	***1160 YOSEMITE AVE W***	***ESE 1/4 - 1/2 (0.388 mi.)***	***34***	***142***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Global Id: T0607791885

Lower Elevation	Address	Direction / Distance	Map ID	Page
TED PETERS TRUCKING	***1985 YOSEMITE AVE W***	***WSW 1/4 - 1/2 (0.327 mi.)***	***G31***	***134***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 06/03/2021
Status: Completed - Case Closed
Status: Case Closed
Global Id: T0607700217

FRANK'S EXXON #3	***2072 YOSEMITE***	***WSW 1/4 - 1/2 (0.440 mi.)***	***H36***	***148***

Database: LUST REG 5, Date of Government Version: 07/01/2008
Database: LUST, Date of Government Version: 06/03/2021
Status: Open - Verification Monitoring
Status: Leak being confirmed
Global Id: T0607700558

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 are 2 CPS-SLIC sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TED PETERS TRUCKING	***1985 W YOSEMITE***	***WSW 1/4 - 1/2 (0.327 mi.)***	***G30***	***133***

Database: CPS-SLIC, Date of Government Version: 06/03/2021
Facility Status: Completed - Case Closed
Global Id: SL372563620

TED PETERS TRUCKING	***1985 YOSEMITE AVE W***	***WSW 1/4 - 1/2 (0.327 mi.)***	***G31***	***134***

Database: SLIC REG 5, Date of Government Version: 04/01/2005

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 4 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER FOUNDATION -	1777 W YOSEMITE AVE	WSW 0 - 1/8 (0.105 mi.)	D12	35
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Database: UST, Date of Government Version: 06/03/2021 Facility Id: FA0003978 Facility Id: 00 FA0003978 Tank Status: 01 - Active, billable				
ST DOMINIC'S HOSPITA	1777 YOSEMITE AVE	WSW 0 - 1/8 (0.105 mi.)	D14	49
Database: UST, Date of Government Version: 06/03/2021 Facility Id: FA0003978				
COLONIAL ENERGY CE 4	1434 W YOSEMITE AVE	SE 1/8 - 1/4 (0.155 mi.)	E23	84
Database: UST SAN JOAQUIN, Date of Government Version: 06/22/2018 Database: UST, Date of Government Version: 06/03/2021 Facility Id: FA0003739 Tank Status: 01 - Active, billable Tank Status: 02 - Inactive, non-billable				
JACKPOT FOOD MART*	1434 YOSEMITE AVE	SE 1/8 - 1/4 (0.155 mi.)	E25	118
Database: UST, Date of Government Version: 06/03/2021 Facility Id: FA0003739				

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER FOUNDATION -	1777 W YOSEMITE AVE	WSW 0 - 1/8 (0.105 mi.)	D11	35
Database: AST, Date of Government Version: 07/06/2016				

State and tribal voluntary cleanup sites

VCP: 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.

A review of the VCP list, as provided by EDR, and dated 04/23/2021 has revealed that there is 1 VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
SATELLITE HOUSING	***280 AND 282 N. AIRPO***	***W 1/4 - 1/2 (0.330 mi.)***	***32***	***137***
Status: Inactive - Action Required Facility Id: 60000626				

EXECUTIVE SUMMARY

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 06/04/2021 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
GO GREEN RECYCLING I Cert Id: RC14783	***2066 W YOSEMITE AVE***	***WSW 1/4 - 1/2 (0.422 mi.)***	***H35***	***146***

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 04/19/2021 has revealed that there are 5 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER PERMANENTE	***1721 W YOSEMITE AVE***	***SW 0 - 1/8 (0.025 mi.)***	***A4***	***19***
GOODWILL (MANTECA #2	***1477 W YOSEMITE AVE***	***ESE 0 - 1/8 (0.085 mi.)***	***C8***	***27***
KAISER FOUNDATION -	***1777 W YOSEMITE AVE***	***WSW 1/8 - 1/4 (0.133 mi.)***	***D16***	***52***
TOWER MART #886	***1434 W YOSEMITE AVE***	***SE 1/8 - 1/4 (0.155 mi.)***	***E24***	***87***
BIG LOTS MANTECA 461	***1321 WEST YOSEMITE A***	***ESE 1/8 - 1/4 (0.219 mi.)***	***F28***	***123***

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST. DOMINIC'S HOSPIT Status: A Tank Status: A Comp Number: 2397	1751 W YOSEMITE AVE	WSW 1/8 - 1/4 (0.133 mi.)	D18	69
JACKPOT FOOD MART Status: A Tank Status: A	***1434 YOSEMITE AVE W***	***SE 1/8 - 1/4 (0.155 mi.)***	***E22***	***77***

Comp Number: 1465

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BURNS GAS MART Facility Id: 00000018913	1554 W YOSEMITE	SSE 0 - 1/8 (0.036 mi.)	B5	26

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 04/19/2021 has revealed that there are 2 CERS TANKS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER FOUNDATION -	***1777 W YOSEMITE AVE***	***WSW 1/8 - 1/4 (0.133 mi.)***	***D16***	***52***
TOWER MART #886	***1434 W YOSEMITE AVE***	***SE 1/8 - 1/4 (0.155 mi.)***	***E24***	***87***

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.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ST. DOMINIC'S HOSPIT Facility Id: 39004260 Status: A	1751 W YOSEMITE AVE	WSW 1/8 - 1/4 (0.133 mi.)	D17	68
JACKPOT FOOD MART Facility Id: 39000549 Status: A	***1434 YOSEMITE AVE W***	***SE 1/8 - 1/4 (0.155 mi.)***	***E22***	***77***

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 03/22/2021 has revealed that there are 9 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
KAISER MANTECA EPA ID:: CAL000249557	1721 WEST YOSEMITE	SW 0 - 1/8 (0.025 mi.)	A3	16
GOODWILL INDUSTRIES	1477 W YOSEMITE AVE	ESE 0 - 1/8 (0.085 mi.)	C9	30
JOHN'S MOBILE EPA ID:: CAL000368337	1575 MARINO CT	S 0 - 1/8 (0.120 mi.)	15	50
FUEL FILTRATION WEST EPA ID:: CAR000016857	***1406 W CENTER ST***	***E 1/8 - 1/4 (0.134 mi.)***	***19***	***69***
SAVEMART SUPERMARKET EPA ID:: CAL000359689	1431 W YOSEMITE AVE	ESE 1/8 - 1/4 (0.145 mi.)	20	72
H&S ENERGY PRODUCTS	1434 W YOSEMITE AVE	SE 1/8 - 1/4 (0.154 mi.)	E21	75
MANTECA MIDAS EPA ID:: CAL000365942	1412 W YOSEMITE AVE	ESE 1/8 - 1/4 (0.178 mi.)	E26	118
PNS BIG LOTS #4617 EPA ID:: CAL000391071	1321 W YOSEMITE AVE	ESE 1/8 - 1/4 (0.219 mi.)	F27	120

Lower Elevation	Address	Direction / Distance	Map ID	Page
JOHN C. TRUEB DDS EPA ID:: CAL000137802	165 SAINT DOMINIC DR	W 0 - 1/8 (0.095 mi.)	10	32

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 06/17/2021 has revealed that there are 5 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
JACKPOT FOOD MART Cleanup Status: COMPLETED - CASE CLOSED	***1434 YOSEMITE AVE W***	***SE 1/8 - 1/4 (0.155 mi.)***	***E22***	***77***
CHEVRON #9-1848 Cleanup Status: COMPLETED - CASE CLOSED	***1257 YOSEMITE***	***ESE 1/4 - 1/2 (0.298 mi.)***	***29***	***130***
PAYLESS SHOE STORE Cleanup Status: COMPLETED - CASE CLOSED	***1160 YOSEMITE AVE W***	***ESE 1/4 - 1/2 (0.388 mi.)***	***34***	***142***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TED PETERS TRUCKING Cleanup Status: COMPLETED - CASE CLOSED	***1985 YOSEMITE AVE W***	***WSW 1/4 - 1/2 (0.327 mi.)***	***G31***	***134***
FRANK'S EXXON #3 Cleanup Status: OPEN - VERIFICATION MONITORING	***2072 YOSEMITE***	***WSW 1/4 - 1/2 (0.440 mi.)***	***H36***	***148***

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
JACKPOT FOOD MART Reg Id: 390684	***1434 YOSEMITE AVE W***	***SE 1/8 - 1/4 (0.155 mi.)***	***E22***	***77***
CHEVRON #9-1848 Reg Id: 390633	***1257 YOSEMITE***	***ESE 1/4 - 1/2 (0.298 mi.)***	***29***	***130***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TED PETERS TRUCKING Reg Id: 390295	***1985 YOSEMITE AVE W***	***WSW 1/4 - 1/2 (0.327 mi.)***	***G31***	***134***
FRANK'S EXXON #3 Reg Id: 390720	***2072 YOSEMITE***	***WSW 1/4 - 1/2 (0.440 mi.)***	***H36***	***148***

Notify 65: 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.

A review of the Notify 65 list, as provided by EDR, and dated 03/12/2021 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
QUICK STOP #121	***1196 LOUISE AVE W***	***NNE 1/2 - 1 (0.837 mi.)***	***I38***	***194***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within approximately 0.125 miles of the target property.

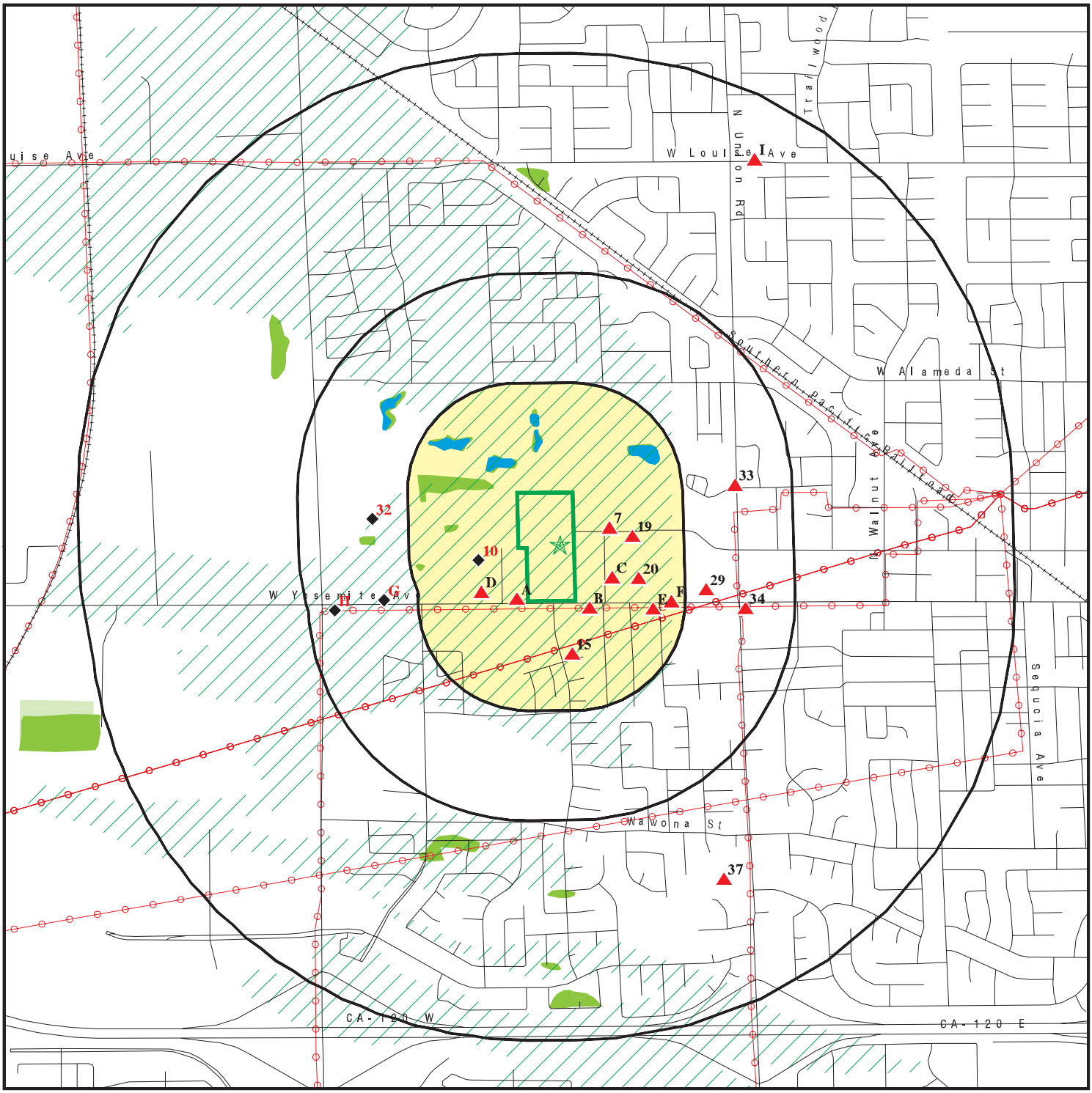
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DELTA BAIT & TACKLE	1554 W YOSEMITE	SSE 0 - 1/8 (0.036 mi.)	B6	27
JK TRANSMISSION	1483 W CENTER ST APT	ENE 0 - 1/8 (0.082 mi.)	7	27

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
CONTEL MANTECA CO	HWTS
PMZ REAL ESTATE MANTECA	CIWQS
MANTECA DOWNTOWN STREETSCAPE	CIWQS
SPRECKELS SUGAR COMPANY, INC.	ENVIROSTOR

OVERVIEW MAP - 06686940.2R



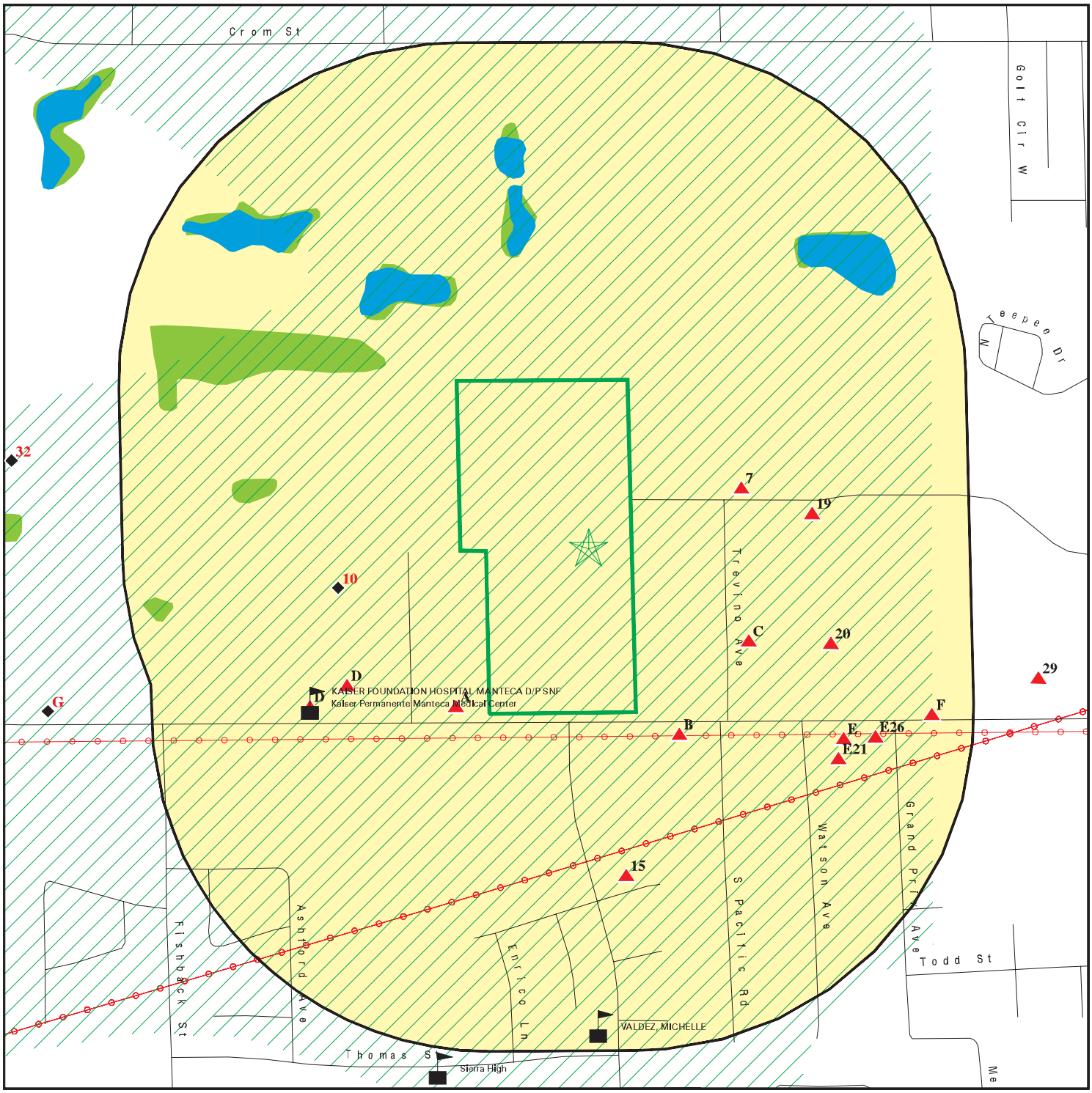
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Special Flood Hazard Area (1%)
- 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: Prose Manteca	CLIENT: Engeo Inc.
ADDRESS: 1563 West Yosemite Avenue Manteca CA 95337	CONTACT: Jenna Keith
LAT/LONG: 37.799266 / 121.242323	INQUIRY #: 06686940.2r DATE: October 01, 2021 3:28 pm

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DETAIL MAP - 06686940.2R



- 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
- 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: Prose Manteca	CLIENT: Engeo Inc.
ADDRESS: 1563 West Yosemite Avenue Manteca CA 95337	CONTACT: Jenna Keith INQUIRY #: 06686940.2r
LAT/LONG: 37.799266 / 121.242323	DATE: October 01, 2021 3:29 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		3	0	NR	NR	NR	3
RCRA-SQG	0.250		0	0	NR	NR	NR	0
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	1	NR	1
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	2	NR	3
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		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	2	NR	NR	2
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		2	2	NR	NR	NR	4
AST	0.250		1	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	1	NR	NR	1
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
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		2	3	NR	NR	NR	5
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		1	0	NR	NR	NR	1
CERS TANKS	0.250		0	2	NR	NR	NR	2
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	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	5	NR	NR	NR	9
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
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	1	4	NR	NR	5
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	1	NR	1
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
MINES MRDS	0.001		0	NR	NR	NR	NR	0
HWTS	TP		NR	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		2	NR	NR	NR	NR	2
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	15	19	17	4	0	55

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
SW
< 1/8
0.025 mi.
131 ft.

KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA
1721 W YOSEMITE AVENUE
MANTECA, CA 95337

Site 1 of 4 in cluster A

RCRA-LQG | **1026493994** | **CAR000309146**

Relative:
Higher

Actual:
28 ft.

RCRA-LQG:

Date Form Received by Agency:	2020-06-12 00:00:00.0
Handler Name:	KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA
Handler Address:	1721 W YOSEMITE AVENUE
Handler City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAR000309146
Contact Name:	TONIA J SHAW
Contact Address:	W YOSEMITE AVENUE
Contact City,State,Zip:	MANTECA, CA 95337
Contact Telephone:	209-629-7234
Contact Fax:	Not reported
Contact Email:	TONIA.J.SHAW@KP.ORG
Contact Title:	SAFETY OPERATIONS PRACTICE LEADER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large 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:	W YOSEMITE AVENUE
Mailing City,State,Zip:	MANTECA, CA 95337
Owner Name:	KAISER FOUNDATION HEALTH PLAN, INC.
Owner Type:	Private
Operator Name:	KAISER FOUNDATION HEALTH PLAN, INC.
Operator Type:	Private
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:	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

KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA (Continued) **1026493994**

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:	2020-06-16 15:15:49.0
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:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA (Continued) **1026493994**

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: U188
Waste Description: PHENOL

Waste Code: U248
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: KAISER FOUNDATION HEALTH PLAN, INC.
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1 KAISER PLAZA
Owner/Operator City,State,Zip: OAKLAND, CA 94612
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: KAISER FOUNDATION HEALTH PLAN, INC.
Legal Status: Private
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 1 KAISER PLAZA
Owner/Operator City,State,Zip: OAKLAND, CA 94612
Owner/Operator Telephone: Not reported
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2020-06-12 00:00:00.0
Handler Name: KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA
Federal Waste Generator Description: Large Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No

KAISER PERMANENTE MEDICAL OFFICE BUILDING MANTECA (Continued) **1026493994**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 62111
NAICS Description: OFFICES OF PHYSICIANS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A2
SW
< 1/8
0.025 mi.
131 ft.

KAISER MANTECA **RCRA-LQG** **1024802829**
1721 W. YOSEMITE AVENUE **CAL000249558**
MANTECA, CA 94337

Site 2 of 4 in cluster A

Relative:
Higher

Actual:
28 ft.

RCRA-LQG:
Date Form Received by Agency: 2020-02-28 00:00:00.0
Handler Name: KAISER MANTECA
Handler Address: 1721 W. YOSEMITE AVENUE
Handler City,State,Zip: MANTECA, CA 94337
EPA ID: CAL000249558
Contact Name: TONIA J SHAW
Contact Address: W. YOSEMITE AVENUE
Contact City,State,Zip: MANTECA, CA 94337
Contact Telephone: 209-629-7324
Contact Fax: Not reported
Contact Email: TONIA.J.SHAW@KP.ORG
Contact Title: SAFETY OPERATIONS LEADER/SAFETY OFFICER
EPA Region: 09
Land Type: Private
Federal Waste Generator Description: Large Quantity Generator
Non-Notifier: Not reported
Biennial Report Cycle: 2019
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: W. YOSEMITE AVENUE
Mailing City,State,Zip: MANTECA, CA 94337
Owner Name: KAISER FOUNDATION HEALTH PLAN INC
Owner Type: Private
Operator Name: KAISER FOUNDATION HEALTH PLAN INC
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No

KAISER MANTECA (Continued) **1024802829**

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:	2020-09-22 19:47:59.0
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:	Yes
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2019

Click Here for Biennial Reporting System Data:
Year: 2017

KAISER MANTECA (Continued) **1024802829**

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE
Waste Code:	D002
Waste Description:	CORROSIVE WASTE
Waste Code:	D005
Waste Description:	BARIUM
Waste Code:	D007
Waste Description:	CHROMIUM
Waste Code:	D009
Waste Description:	MERCURY
Waste Code:	D010
Waste Description:	SELENIUM
Waste Code:	D011
Waste Description:	SILVER
Waste Code:	D013
Waste Description:	LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)
Waste Code:	D024
Waste Description:	M-CRESOL
Waste Code:	P001
Waste Description:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%
Waste Code:	P042
Waste Description:	1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE
Waste Code:	P075
Waste Description:	NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS
Waste Code:	U188
Waste Description:	PHENOL
Waste Code:	U248
Waste Description:	2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYL-BUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS OF 0.3% OR LESS

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KAISER FOUNDATION HEALTH PLAN INC
Legal Status:	Private

KAISER MANTECA (Continued) **1024802829**

Date Became Current:	1998-06-04 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OALAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAISER FOUNDATION HEALTH PLAN INC
Legal Status:	Private
Date Became Current:	1998-06-04 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAISER FOUNDATION HEALTH PLAN INC
Legal Status:	Private
Date Became Current:	1998-06-04 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Operator
Owner/Operator Name:	KAISER FOUNDATION HEALTH PLAN INC
Legal Status:	Private
Date Became Current:	1998-06-04 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OALAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG

Historic Generators:

Receive Date:	2018-03-27 00:00:00.0
Handler Name: KAISER MANTECA	
Federal Waste Generator Description:	Large 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:	No

KAISER MANTECA (Continued) **1024802829**

Electronic Manifest Broker: No

Receive Date: 2020-02-28 00:00:00.0
Handler Name: KAISER MANTECA
Federal Waste Generator Description: Large 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: No
Electronic Manifest Broker: Yes

List of NAICS Codes and Descriptions:
NAICS Code: 621491
NAICS Description: HMO MEDICAL CENTERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A3 **KAISER MANTECA** **RCRA NonGen / NLR** **1024802828**
SW **1721 WEST YOSEMITE** **CAL000249557**
< 1/8 **MANTECA, CA 94337**
0.025 mi.
131 ft. **Site 3 of 4 in cluster A**

Relative: **Higher**
Actual: **28 ft.**

RCRA NonGen / NLR:
Date Form Received by Agency: 2002-04-08 00:00:00.0
Handler Name: KAISER MANTECA
Handler Address: 1721 WEST YOSEMITE
Handler City,State,Zip: MANTECA, CA 94337
EPA ID: CAL000249557
Contact Name: MATTHEW HURAY
Contact Address: 1800 HARRISON ST
Contact City,State,Zip: OAKLAND, CA 94612
Contact Telephone: 301-625-7462
Contact Fax: Not reported
Contact Email: MATTHEW.J.HURAY@KP.ORG
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: 1800 HARRISON ST
Mailing City,State,Zip: OAKLAND, CA 94612-5103

KAISER MANTECA (Continued) **1024802828**

Owner Name:	KAISER PERMANENTE
Owner Type:	Other
Operator Name:	MATTHEW HURAY
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
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 15:45:56.0
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

KAISER MANTECA (Continued) **1024802828**

Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAISER PERMANENTE
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	ONE KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612-3610
Owner/Operator Telephone:	510-625-4737
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MATTHEW HURAY
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 HARRISON ST
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	301-625-7462
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2002-04-08 00:00:00.0
Handler Name: KAISER MANTECA	
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:	331524
NAICS Description:	ALUMINUM FOUNDRIES (EXCEPT DIE-CASTING)

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A4 **KAISER PERMANENTE** **CERS HAZ WASTE** **S121741949**
SW **1721 W YOSEMITE AVE** **CERS** **N/A**
< 1/8 **MANTECA, CA 95337**
0.025 mi.
131 ft. **Site 4 of 4 in cluster A**

Relative:
Higher

Actual:
28 ft.

CERS HAZ WASTE:
Name: KAISER PERMANENTE
Address: 1721 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 127158
CERS ID: 10184533
CERS Description: Hazardous Waste Generator

CERS:
Name: KAISER PERMANENTE
Address: 1721 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 127158
CERS ID: 10184533
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 07-20-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
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 08/18/2017. 1960 cubic feet of compressed oxygen 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. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 06-16-2015
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 03/10/2020. 1) No waste analysis/ determination was available for empty Warfarin blister packs, which according to the "P-Listed Pharmaceuticals and P-listed Empty Container Management" fact sheet posted on the wall of the Outpatient Pharmacy are to be "discard[ed] into solid waste or recycle[ed]". According to the pharmacy manager, this facility dispenses Warfarin in all concentrations from 1 to 10 mg. The posted fact sheet is unclear with regards to its applicability, and does not explain to which blister packs it pertains to (for example: dispensed blister packs, returned or expired blister packs), also it is unclear whether or not

KAISER PERMANENTE (Continued) **S121741949**

these discarded packs are being checked for presence of any visible Warfarin residue prior to disposal. A generator shall make a hazardous waste determination and keep a record of any test results, waste analyses, or other determinations made in accordance with hazardous waste regulations for at least three years from the date that the waste was last disposed of. I

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 07-20-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 08/18/2017. A site map was not complete as part of the business plan. The site map is missing emergency response equipment locations, storm drain locations, evacuation staging area, and adjacent strees. 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. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 06-16-2015
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to maintain uniform hazardous waste manifest, consolidated manifest, or bills of lading copies for three years.
Violation Notes: Returned to compliance on 07/17/2015. Copies of uniform manifests for the disposal of warfarin/coumadin hazardous waste were not found on site. Warfarin/coumadin is being supplied/dispensed at this location. Hazardous waste generators shall retain copies of all manifests signed off by the disposal facility and all receipts used in a consolidated manifesting procedure on site for three years and have them readily available for review. Immediately locate a copies of all manifests and receipts related to the disposal of above noted waste, maintain them on site, and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 06-16-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General

KAISER PERMANENTE (Continued) **S121741949**

Violation Notes:	Returned to compliance on 07/17/2015. One 1-gallon container located inside the OB area did not have an initial start date marked. The initial date of waste accumulation shall be clearly marked and visible for inspection on each container used for satellite accumulation of hazardous waste. Since it cannot be determined how long this waste has been stored on site, immediately mark this container with today's date and contact a licensed hazardous waste hauler to dispose of this waste under manifest as appropriate, provide proof of correction to the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	127158
Site Name:	KAISER PERMANENTE
Violation Date:	03-10-2020
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 06/19/2020. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - Located in the Pharmacy: 1. A black container with a white lid was missing the hazardous properties and the composition (contents) (see photos IMG 1213-4). 2. A black container with a clear lid was missing the composition (contents) (IMG 1215-6). 3. A black container with a white lid was missing the composition (contents) (IMG 1217). - Located in the Pediatrics Department: 4. A black container with a white lid and storing aerosols, was missing the hazardous properties (IMG 1218-20) - Located in the Adult Family Medicine Soiled Utility Room: 5. A black container with a white lid storing silver nitrate sticks was incorrectly marked as flammable, corrosive, and reactive for the hazardous properties (IMG 1221-3). According to a hazardous waste labeling guidance document, posted in the room, silver nitrate sticks are to be marked as an oxidizer. 6. A black containe
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	127158
Site Name:	KAISER PERMANENTE
Violation Date:	03-10-2020
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 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:	Returned to compliance on 05/15/2020. OBSERVATION: The following open hazardous waste storage containers were observed on-site: - Located in the Pediatrics Department: 1. A black container with a white lid and storing aerosols (see photos IMG 1218-20) - Located in the Adult Family Medicine Soiled Utility Room: 2. A black container with a white

KAISER PERMANENTE (Continued) **S121741949**

lid and storing Monsel's Paste, ferric subsulfate (IMG 1224-6). 3. A black container with a white lid and storing Cardinal Health Hot Packs and Infant Heel Warmers (IMG 1227-8). 4. A black container with a white lid and storing silver nitrate and potassium nitrate (IMG 1229-1231). 5. A black container with a white lid and storing acetic acid 4% (IMG 1232-4). 6. A black container with a clear lid, labeled as storing "expired supp," and contained several waste items, including one labeled "BD Universal Viral Transport for Viruses, Chlamydiae, Mycoplasmas and Ureaplasmas" (IMG 1238-9). 7. A black container with a clear lid and storing hydrogen peroxide (IMG 1240-1)
REGUL

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 127158
Site Name: KAISER PERMANENTE
Violation Date: 06-16-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/16/2015. One 5-gallon container located in the outpatient pharmacy area lacked composition (contents) . 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 This container was labeled with all the required information at the time of inspection. This is a repeat violation, which was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-10-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: An inspection checklist was provided to the facility operator on the day of inspection. A complete report was finished on 4/8/2020 and 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, by 5/8/2020. 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. Documents provided during inspection: Hazardous Waste Minimum Labeling Requirements guidance sheet, List of Free CUPA Training Classes Waste streams found: electronics duster aerosol cans, Cardinal Health Infant Heel Warmer, Cardinal Health Hot Pack, acetic acid 4%; expired supplies- BD univeral vir
Eval Division: San Joaquin County Environmental Health

KAISER PERMANENTE (Continued) **S121741949**

Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Provide DA Investigator access to EHD waste site for dumpster dive waste storage.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-16-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	THIS IS A REVISED REPORT ISSUED ON JULY 7, 2015 AND IT SUPERSEDES ALL PREVIOUSLY ISSUED REPORTS. 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, 30-DAYS FROM RECEIPT OF THIS 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 sure to include your hazardous waste 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:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-20-2017
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, 8/19/2017. 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:	07-30-2013
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS

KAISER PERMANENTE (Continued) **S121741949**

Enforcement Action:

Site ID:	127158
Site Name:	KAISER PERMANENTE
Site Address:	1721 W YOSEMITE AVE
Site City:	MANTECA
Site Zip:	95337
Enf Action Date:	06-16-2015
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:	HW
Enf Action Source:	CERS

Site ID:	127158
Site Name:	KAISER PERMANENTE
Site Address:	1721 W YOSEMITE AVE
Site City:	MANTECA
Site Zip:	95337
Enf Action Date:	07-20-2017
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:	127158
Facility Name:	KAISER PERMANENTE
Env Int Type Code:	HWG
Program ID:	10184533
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.798360
Longitude:	-121.244140

Affiliation:

Affiliation Type Desc:	Legal Owner
Entity Name:	The Permanente Medical Group
Entity Title:	Not reported
Affiliation Address:	1800 Harrison Street, 7th Floor
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 625-4737

Affiliation Type Desc:	Parent Corporation
Entity Name:	Kaiser Permanente
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported

KAISER PERMANENTE (Continued) **S121741949**

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:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1777 W YOSEMITE AVE
Affiliation City:	MANTECA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95337
Affiliation Phone:	Not reported
Affiliation Type Desc:	Environmental Contact
Entity Name:	Tonia Shaw
Entity Title:	Not reported
Affiliation Address:	1777 W. Yosemite Ave
Affiliation City:	Manteca
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95337
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Tonia Shaw
Entity Title:	Safety Operations Leader
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:	Chandra Buchanan, Safety Specialist
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:	Engineering Department
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

KAISER PERMANENTE (Continued) **S121741949**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 825-3700
Affiliation Type Desc:	Property Owner
Entity Name:	The Permanente Medical Group
Entity Title:	Not reported
Affiliation Address:	1800 Harrison Street, 7th floor
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 625-4737

B5 **BURNS GAS MART** **HIST UST** **U001606157**
SSE **1554 W YOSEMITE** **N/A**
< 1/8 **MANTECA, CA 95336**
0.036 mi.
191 ft. **Site 1 of 2 in cluster B**

Relative: **Higher**

Actual: **29 ft.**

HIST UST:

Name:	BURNS GAS MART
Address:	1554 W YOSEMITE
City,State,Zip:	MANTECA, CA 95336
File Number:	0002B4A7
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002B4A7.pdf
Region:	STATE
Facility ID:	00000018913
Facility Type:	Gas Station
Other Type:	Not reported
Contact Name:	VINCENT F. BLANK
Telephone:	2092391792
Owner Name:	TIME OIL CO.
Owner Address:	2737 W. COMMODORE WAY
Owner City,St,Zip:	SEATTLE, WA 98199
Total Tanks:	0003
Tank Num:	001
Container Num:	444
Year Installed:	1976
Tank Capacity:	00006000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	002
Container Num:	475
Year Installed:	1973
Tank Capacity:	00008000
Tank Used for:	PRODUCT
Type of Fuel:	06
Container Construction Thickness:	1/4
Leak Detection:	Stock Inventor
Tank Num:	003

BURNS GAS MART (Continued) **U001606157**

Container Num: 476
Year Installed: 1973
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: 06
Container Construction Thickness: 1/4
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

B6 **DELTA BAIT & TACKLE** **EDR Hist Auto** **1021977631**
SSE **1554 W YOSEMITE** **N/A**
< 1/8 **MANTECA, CA 95336**
0.036 mi.
191 ft. **Site 2 of 2 in cluster B**

Relative: EDR Hist Auto
Higher

Actual: **29 ft.**

Year:	Name:	Type:
1982	DELTA BAIT & TACKLE	Sporting Goods And Bicycle Shops
1983	DELTA BAIT & TACKLE	Sporting Goods And Bicycle Shops

---

7 **JK TRANSMISSION** **EDR Hist Auto** **1021398789**
ENE **1483 W CENTER ST APT 81** **N/A**
< 1/8 **MANTECA, CA 95337**
0.082 mi.
433 ft.

Relative: EDR Hist Auto
Higher

Actual: **28 ft.**

Year:	Name:	Type:
2011	JK TRANSMISSION	Automotive Transmission Repair Shops
2012	JK TRANSMISSION	Automotive Transmission Repair Shops
2013	JK TRANSMISSION	Automotive Transmission Repair Shops
2014	JK TRANSMISSION	Automotive Transmission Repair Shops

C8 **GOODWILL (MANTECA #21)** **CERS HAZ WASTE** **S126396927**
ESE **1477 W YOSEMITE AVE** **HWTS** **N/A**
< 1/8 **MANTECA, CA 95337**
0.085 mi.
448 ft. **Site 1 of 2 in cluster C**

Relative: CERS HAZ WASTE:
Higher

Actual: **29 ft.**

Name: GOODWILL (MANTECA #21)
Address: 1477 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 570852
CERS ID: 10861546
CERS Description: Hazardous Waste Generator

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 129 S. Grant ST

GOODWILL (MANTECA #21) (Continued) **S126396927**

Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95202
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Goodwill Industries of SJV
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) 466-2311
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:	Parent Corporation
Entity Name:	Goodwill Industries of SJV
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:	Anna Castro
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:	Environmental Contact
Entity Name:	Anna Castro
Entity Title:	Not reported
Affiliation Address:	129 S. Grant ST
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95202
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer

GOODWILL (MANTECA #21) (Continued) **S126396927**

Entity Name:	Anna Castro
Entity Title:	Director of Operations
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:	Goodwill Industries of SJV
Entity Title:	Not reported
Affiliation Address:	129 S. Grant ST
Affiliation City:	Stockton
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95202
Affiliation Phone:	(209) 466-2311

HWTS:

Name:	GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21
Address:	1477 W YOSEMITE AVE
Address 2:	Not reported
City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAL000456979
Inactive Date:	Not reported
Create Date:	09/22/2020
Last Act Date:	09/22/2020
Mailing Name:	Not reported
Mailing Address:	129 S GRANT ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	STOCKTON, CA 95202
Owner Name:	GOODWILL IND OF SAN JOAQUIN VALLEY INC
Owner Address:	129 S GRANT ST
Owner Address 2:	Not reported
Owner City,State,Zip:	STOCKTON, CA 95202
Contact Name:	ANNA CASTRO
Contact Address:	129 S GRANT ST
Contact Address 2:	Not reported
City,State,Zip:	STOCKTON, CA 95202

NAICS:

EPA ID:	CAL000456979
Create Date:	2020-09-22 15:26:53.353
NAICS Code:	522298
NAICS Description:	All Other Nondepository Credit Intermediation
Issued EPA ID Date:	2020-09-22 15:26:53.35300
Inactive Date:	Not reported
Facility Name:	GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21
Facility Address:	1477 W YOSEMITE AVE
Facility Address 2:	Not reported
Facility City:	MANTECA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	95337

C9 **GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE** **RCRA NonGen / NLR** **1026492201**
ESE **1477 W YOSEMITE AVE** **CAL000456979**
< 1/8 **MANTECA, CA 95337**
0.085 mi.
448 ft. **Site 2 of 2 in cluster C**

Relative: **Higher**
Actual: **29 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-09-22 00:00:00.0
Handler Name:	GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21
Handler Address:	1477 W YOSEMITE AVE
Handler City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAL000456979
Contact Name:	ANNA CASTRO
Contact Address:	129 S GRANT ST
Contact City,State,Zip:	STOCKTON, CA 95202
Contact Telephone:	760-232-6987
Contact Fax:	209-466-0547
Contact Email:	ACASTRO@GOODWILL-SJV.ORG
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:	129 S GRANT ST
Mailing City,State,Zip:	STOCKTON, CA 95202
Owner Name:	GOODWILL IND OF SAN JOAQUIN VALLEY INC
Owner Type:	Other
Operator Name:	ANNA CASTRO
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:	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

GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21 (Continued) **1026492201**

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:	2020-09-27 18:05:32.0
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:	GOODWILL IND OF SAN JOAQUIN VALLEY INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	129 S GRANT ST
Owner/Operator City,State,Zip:	STOCKTON, CA 95202
Owner/Operator Telephone:	209-466-2311
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ANNA CASTRO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	129 S GRANT ST
Owner/Operator City,State,Zip:	STOCKTON, CA 95202
Owner/Operator Telephone:	760-232-6987
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21 (Continued) **1026492201**

Historic Generators:
Receive Date: 2020-09-22 00:00:00.0
Handler Name: GOODWILL INDUSTRIES OF SAN JOAQUIN VALLEY INC SITE #21
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: 522298
NAICS Description: ALL OTHER NONDEPOSITORY CREDIT INTERMEDIATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

10
West
< 1/8
0.095 mi.
499 ft.

JOHN C. TRUEB DDS **RCRA NonGen / NLR** **1024793357**
165 SAINT DOMINIC DR **CAL000137802**
MANTECA, CA 95337

Relative:
Lower

Actual:
27 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 1995-02-15 00:00:00.0
Handler Name: JOHN C. TRUEB DDS
Handler Address: 165 SAINT DOMINIC DR
Handler City,State,Zip: MANTECA, CA 95337-0000
EPA ID: CAL000137802
Contact Name: JOHN C. TRUEB-OWNER
Contact Address: 165 SAINT DOMINICS DR STE 100
Contact City,State,Zip: MANTECA, CA 95337
Contact Telephone: 209-823-3574
Contact Fax: 209-239-4378
Contact Email: JCTDDS@VERIZON.NET
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: 165 SAINT DOMINICS DR STE 100
Mailing City,State,Zip: MANTECA, CA 95337-7802
Owner Name: JOHN C TRUEB DDS

JOHN C. TRUEB DDS (Continued) **1024793357**

Owner Type:	Other
Operator Name:	JOHN C. TRUEB-OWNER
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
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 15:43:02.0
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

JOHN C. TRUEB DDS (Continued) **1024793357**

Sub-Part P Indicator: No

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: JOHN C. TRUEB-OWNER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 165 SAINT DOMINICS DR STE 100
Owner/Operator City,State,Zip: MANTECA, CA 95337
Owner/Operator Telephone: 209-823-3574
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: JOHN C TRUEB DDS
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 165 SAINT DOMINICS DR STE 100
Owner/Operator City,State,Zip: MANTECA, CA 95337-7802
Owner/Operator Telephone: 209-823-3574
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1995-02-15 00:00:00.0
Handler Name: JOHN C. TRUEB DDS
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: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

D11 **KAISER FOUNDATION - MANTECA** **AST** **A100421362**
WSW **1777 W YOSEMITE AVE** **N/A**
< 1/8 **MANTECA, CA 95337**
0.105 mi.
554 ft. **Site 1 of 7 in cluster D**

Relative:
Higher

Actual:
28 ft.

AST:

Name:	KAISER FOUNDATION - MANTECA
Address:	1777 W YOSEMITE AVE
City/Zip:	MANTECA,95337
Certified Unified Program Agencies:	Not reported
Owner:	KAISER FOUNDATION HOSPITAL
Total Gallons:	Not reported
CERSID:	10181559
Facility ID:	00 FA0003978
Business Name:	KAISER FOUNDATION - MANTECA
Phone:	(209) 825-3848
Fax:	Not reported
Mailing Address:	1777 W YOSEMITE AVE
Mailing Address City:	MANTECA
Mailing Address State:	CA
Mailing Address Zip Code:	95337
Operator Name:	Engineering Department
Operator Phone:	(209) 825-3700
Owner Phone:	(510) 271-5800
Owner Mail Address:	ONE KAISER PLAZA
Owner State:	CA
Owner Zip Code:	94612
Owner Country:	United States
Property Owner Name:	Kaiser Permanente Foundation Hospital
Property Owner Phone:	(510) 271-5800
Property Owner Mailing Address:	One Kaiser Plaza
Property Owner City:	Oakland
Property Owner Stat :	CA
Property Owner Zip Code:	94612
Property Owner Country:	United States
EPAID:	CAR000157727

D12 **KAISER FOUNDATION - MANTECA** **UST** **U004024112**
WSW **1777 W YOSEMITE AVE** **N/A**
< 1/8 **MANTECA, CA 95337**
0.105 mi.
554 ft. **Site 2 of 7 in cluster D**

Relative:
Higher

Actual:
28 ft.

UST:

Name:	KAISER FOUNDATION - MANTECA
Address:	1777 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Facility ID:	00 FA0003978
Permitting Agency:	San Joaquin County Environmental Health
Latitude:	37.79803
Longitude:	-121.2462

UST SAN JOAQUIN:

Name:	KAISER FOUNDATION - MANTECA
Address:	1777 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Region:	SJ
Facility Id:	FA0003978

KAISER FOUNDATION - MANTECA (Continued) **U004024112**

Mail Address:	1777 W YOSEMITE AVE
Mail Address 2:	Not reported
Mail Care of:	Engineering Department
Mail City,St,Zip:	MANTECA, CA 95337
Tank Rec ID:	TA0239701
Tank Number:	1
Tank Status:	01 - Active, billable
Tank Capacity:	8000
Product Type Desc:	03 - DIESEL
Program Element:	2360
Decode for Program Element:	2360 - UST - PER TANK FEE
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10181559
Cross Ref Tank ID:	Not reported
LEA ID:	1
Common Name:	Not reported
Date Installed:	1/1/1989
Date of Closure:	Not reported
Latitude:	37.7973574944
Longitude:	-121.2461412953

D13 **KAISER FOUNDATION HOSPITAL MANTECA** **RCRA-LQG** **1007569241**
WSW **1777 W YOSEMTE AVENUE** **CAR000157727**
< 1/8 **MANTECA, CA 95337**
0.105 mi.
554 ft. **Site 3 of 7 in cluster D**

Relative: **Higher**

Actual: **28 ft.**

RCRA-LQG:

Date Form Received by Agency:	2020-02-24 00:00:00.0
Handler Name:	KAISER FOUNDATION HOSPITAL MANTECA
Handler Address:	1777 W YOSEMTE AVENUE
Handler City,State,Zip:	MANTECA, CA 95337-5130
EPA ID:	CAR000157727
Contact Name:	TONIA J SHAW
Contact Address:	W YOSEMTE AVENUE
Contact City,State,Zip:	MANTECA, CA 95337-5130
Contact Telephone:	209-629-7342
Contact Fax:	Not reported
Contact Email:	TONIA.J.SHAW@KP.ORG
Contact Title:	SAFTEY OPERATIONS LEADER/ SAFTEY OFFICER
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2019
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	W YOSEMTE AVENUE
Mailing City,State,Zip:	MANTECA, CA 95337-5130
Owner Name:	KAISER FOUNDATION HOSPITALS
Owner Type:	Private
Operator Name:	KAISER FOUNDATION HOSPITALS
Operator Type:	Private
Short-Term Generator Activity:	No

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

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:	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:	Yes
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	Yes
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2020-10-09 17:22:31.0
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

Biennial: List of Years

Year:	2019

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Click Here for Biennial Reporting System Data:
Year: 2017

Click Here for Biennial Reporting System Data:
Year: 2013

Click Here for Biennial Reporting System Data:
Year: 2011

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Waste Code: D002
Waste Description: CORROSIVE WASTE

Waste Code: D003
Waste Description: REACTIVE WASTE

Waste Code: D004
Waste Description: ARSENIC

Waste Code: D005
Waste Description: BARIUM

Waste Code: D007
Waste Description: CHROMIUM

Waste Code: D008
Waste Description: LEAD

Waste Code: D009
Waste Description: MERCURY

Waste Code: D010
Waste Description: SELENIUM

Waste Code: D011
Waste Description: SILVER

Waste Code: D013
Waste Description: LINDANE (1,2,3,4,5,6-HEXA-CHLOROCYCLOHEXANE, GAMMA ISOMER)

Waste Code: D022
Waste Description: CHLOROFORM

Waste Code: D024
Waste Description: M-CRESOL

Waste Code: D032
Waste Description: HEXACHLOROBENZENE

Waste Code: D033
Waste Description: HEXACHLOROBUTADIENE

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Waste Code: D039
Waste Description: TETRACHLOROETHYLENE

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.

Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Waste Code: P012
Waste Description: ARSENIC OXIDE AS2O3 (OR) ARSENIC TRIOXIDE

Waste Code: P042
Waste Description: 1,2-BENZENEDIOL, 4-[1-HYDROXY-2-(METHYLAMINO)ETHYL]-, (R)- (OR) EPINEPHRINE

Waste Code: P075
Waste Description: NICOTINE, & SALTS (OR) PYRIDINE, 3-(1-METHYL-2-PYRROLIDINYL)-,(S)-, & SALTS

Waste Code: P081
Waste Description: 1,2,3-PROPANETRIOL, TRINITRATE (R) (OR) NITROGLYCERINE (R)

Waste Code: P108
Waste Description: STRYCHNIDIN-10-ONE, & SALTS (OR) STRYCHNINE, & SALTS

Waste Code: U002
Waste Description: 2-PROPANONE (I) (OR) ACETONE (I)

Waste Code: U010
Waste Description: AZIRINO [2',3':3,4]PYRROLO[1,2-A]INDOLE-4,7-DIONE, 6-AMINO-8-[[(AMINOCARBONYL)OXY]METHYL]-1,1A,2,8,8A,8B-HEXAHYDRO-8A-METHOXY-5-METHYL-, [1AS-(1AALPHA, 8BETA, 8AALPHA, 8BALPHA)]- (OR) MITOMYCIN C

Waste Code: U012
Waste Description: ANILINE (I,T) (OR) BENZENAMINE (I,T)

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Waste Code: U035
Waste Description: BENZENEBUTANOIC ACID, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) CHLORAMBUCIL

Waste Code: U044
Waste Description: CHLOROFORM (OR) METHANE, TRICHLORO-

Waste Code: U048
Waste Description: O-CHLOROPHENOL (OR) PHENOL, 2-CHLORO-

Waste Code: U058
Waste Description: 2H-1,3,2-OXAZAPHOSPHORIN-2-AMINE, N,N-BIS(2-CHLOROETHYL)TETRAHYDRO-, 2-OXIDE (OR) CYCLOPHOSPHAMIDE

Waste Code: U059
Waste Description: 5,12-NAPHTHACENEDIONE, 8-ACETYL-10-[(3-AMINO-2,3,6-TRIDEOXY)-ALPHA-L-LYXO-HEXOPYRANOSYL)OXY]-7,8,9,10-TETRAHYDRO-6,8,11-TRIHYDROXY-1-METHOXY-, (8S-CIS)- (OR) DAUNOMYCIN

Waste Code: U089
Waste Description: DIETHYLSTILBESTEROL (OR) PHENOL, 4,4'-(1,2-DIETHYL-1,2-ETHENEDIYL)BIS, (E)-

Waste Code: U122
Waste Description: FORMALDEHYDE

Waste Code: U129
Waste Description: CYCLOHEXANE, 1,2,3,4,5,6-HEXACHLORO-, (1ALPHA, 2ALPHA, 3BETA, 4ALPHA, 5ALPHA, 6BETA)- (OR) LINDANE

Waste Code: U132
Waste Description: HEXACHLOROPHENE (OR) PHENOL, 2,2'-METHYLENEBIS[3,4,6-TRICHLORO-

Waste Code: U150
Waste Description: L-PHENYLALANINE, 4-[BIS(2-CHLOROETHYL)AMINO]- (OR) MELPHALAN

Waste Code: U154
Waste Description: METHANOL (I) (OR) METHYL ALCOHOL (I)

Waste Code: U182
Waste Description: 1,3,5-TRIOXANE, 2,4,6-TRIMETHYL- (OR) PARALDEHYDE

Waste Code: U188
Waste Description: PHENOL

Waste Code: U200
Waste Description: RESERPINE (OR) YOHIMBAN-16-CARBOXYLIC ACID, 11,17-DIMETHOXY-18-[(3,4,5-TRIMETHOXYBENZOYL)OXY]-, METHYL ESTER, (3BETA, 16BETA, 17ALPHA, 18BETA, 20ALPHA)-

Waste Code: U206
Waste Description: D-GLUCOSE, 2-DEOXY-2-[[(METHYLNITROSOAMINO)-CARBONYL]AMINO]- (OR) GLUCOPYRANOSE, 2-DEOXY-2-(3-METHYL-3-NITROSOUREIDO)-,D- (OR) STREPTOZOTOCIN

Waste Code: U210
Waste Description: ETHENE, TETRACHLORO- (OR) TETRACHLOROETHYLENE

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Waste Code: U237
Waste Description: 2,4-(1H,3H)-PYRIMIDINEDIONE, 5-[BIS(2-CHLOROETHYL)AMINO]- (OR) URACIL MUSTARD

Handler - Owner Operator:
Owner/Operator Indicator: Operator
Owner/Operator Name: KAISER FOUNDATION HOSPITAL
Legal Status: Private
Date Became Current: 2004-06-01 00:00:00.
Date Ended Current: Not reported
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: KAISER FOUNDATION HOSPITALS
Legal Status: Private
Date Became Current: 1990-09-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1 KAISER PLAZA
Owner/Operator City,State,Zip: OAKLAND, CA 94612
Owner/Operator Telephone: 510-271-5800
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: TONIA.J.SHAW@KP.ORG

Owner/Operator Indicator: Operator
Owner/Operator Name: KAISER FOUNDATION HOSPITALS
Legal Status: Private
Date Became Current: 1990-09-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: 1 KAISER PLAZA
Owner/Operator City,State,Zip: OAKLAND, CA 94612
Owner/Operator Telephone: 510-271-5800
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: TONIA.J.SHAW@KP.ORG

Owner/Operator Indicator: Owner
Owner/Operator Name: KAISER PERMANENTE
Legal Status: Private
Date Became Current: 2004-10-20 00:00:00.
Date Ended Current: Not reported
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: KAISER FOUNDATION HOSPITALS
Legal Status: Private
Date Became Current: 1990-09-01 00:00:00.

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAISER FOUNDATION HOSPITALS
Legal Status:	Private
Date Became Current:	1990-09-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Operator
Owner/Operator Name:	ANNA MOSHER
Legal Status:	Private
Date Became Current:	2004-10-20 00:00:00.
Date Ended Current:	Not reported
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:	Operator
Owner/Operator Name:	KAISER PERMANENTE FOUNDATION HOSPITALS
Legal Status:	Private
Date Became Current:	2004-11-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1800 HARRISON STREET, 6TH FLOOR
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-625-4737
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	KAISER FOUNDATION HOSPITALS
Legal Status:	Private
Date Became Current:	1990-09-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG
Owner/Operator Indicator:	Owner

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Owner/Operator Name:	KAISER PERMANENTE FOUNDATION HOSPITALS
Legal Status:	Private
Date Became Current:	2004-11-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1800 HARRISON STREET, 6TH FLOOR
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-625-4737
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	KAISER FOUNDATION HOSPITAL
Legal Status:	Private
Date Became Current:	2004-06-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	ONE KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-625-4737
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KAISER FOUNDATION HOSPITALS
Legal Status:	Private
Date Became Current:	1990-09-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	1 KAISER PLAZA
Owner/Operator City,State,Zip:	OAKLAND, CA 94612
Owner/Operator Telephone:	510-271-5800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	TONIA.J.SHAW@KP.ORG

Historic Generators:

Receive Date:	2012-10-11 00:00:00.0
Handler Name:	MANTECA KAISER PERMANENTE
Federal Waste Generator Description:	Large 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:	2014-02-28 00:00:00.0
Handler Name:	KAISER FOUNDATION HOSPITAL MANTECA
Federal Waste Generator Description:	Large 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

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 2018-02-26 00:00:00.0
Handler Name: KAISER PERMANENTE - MANTECA
Federal Waste Generator Description: Large 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: No
Electronic Manifest Broker: No

Receive Date: 2020-02-24 00:00:00.0
Handler Name: KAISER FOUNDATION HOSPITAL MANTECA
Federal Waste Generator Description: Large 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: No
Electronic Manifest Broker: No

Receive Date: 2019-01-14 00:00:00.0
Handler Name: KAISER FOUNDATION HOSPITAL MANTECA
Federal Waste Generator Description: Large 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: No
Electronic Manifest Broker: No

Receive Date: 2004-10-21 00:00:00.0
Handler Name: KAISER FOUNDATION HOSPITAL MANTECA
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

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

List of NAICS Codes and Descriptions:
NAICS Code: 621491
NAICS Description: HMO MEDICAL CENTERS

NAICS Code: 62211
NAICS Description: GENERAL MEDICAL AND SURGICAL HOSPITALS

Facility Has Received Notices of Violation:

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2020-03-10 00:00:00.0
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	2020-03-10 00:00:00.0
Actual Return to Compliance Date:	2020-05-15 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	2020-03-10 00:00:00.0
Actual Return to Compliance Date:	2020-05-15 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General
Date Violation was Determined:	2020-03-10 00:00:00.0
Actual Return to Compliance Date:	2020-06-02 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	2020-03-10 00:00:00.0
Actual Return to Compliance Date:	2020-06-19 00:00:00.0
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 2020-03-10 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2020-03-10 00:00:00.0
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 2020-05-15 00:00:00.0
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

Evaluation Date: 2020-03-10 00:00:00.0
Evaluation Responsible Agency: State

KAISER FOUNDATION HOSPITAL MANTECA (Continued) **1007569241**

Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2020-05-15 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2020-03-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2020-06-02 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	2020-03-10 00:00:00.0
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	SIGNIFICANT NON-COMPLIER
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	2020-06-19 00:00:00.0
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

D14 **ST DOMINIC'S HOSPITAL/MANTECA** **UST** **U003971434**
WSW **1777 YOSEMITE AVE** **N/A**
< 1/8 **MANTECA, CA 95336**
0.105 mi.
554 ft. **Site 4 of 7 in cluster D**

Relative: UST:
Higher

Actual: Name:	ST DOMINIC'S HOSPITAL/MANTECA
28 ft. Address:	1777 YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95336
Facility ID:	FA0003978
Permitting Agency:	Not reported
Latitude:	37.79856084
Longitude:	-121.247075

15
South
< 1/8
0.120 mi.
634 ft.

JOHN'S MOBILE
1575 MARINO CT
MANTECA, CA 95337

RCRA NonGen / NLR **1024831493** **CAL000368337**

Relative:
Higher

Actual:
30 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2011-10-18 00:00:00.0
Handler Name:	JOHN'S MOBILE	
Handler Address:		1575 MARINO CT
Handler City,State,Zip:		MANTECA, CA 95337
EPA ID:		CAL000368337
Contact Name:		JOHN LUNA
Contact Address:		1575 MARINO CT
Contact City,State,Zip:		MANTECA, CA 95337
Contact Telephone:		209-610-1099
Contact Fax:		000-000-0000
Contact Email:		LUNAJOHN@COMCAST.NET
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:		PO BOX 985
Mailing City,State,Zip:		MANTECA, CA 95336-1139
Owner Name:		JOHN LUNA
Owner Type:		Other
Operator Name:		JOHN LUNA
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
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

JOHN'S MOBILE (Continued) **1024831493**

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 16:59:41.0
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:	JOHN LUNA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1575 MARINO CT
Owner/Operator City,State,Zip:	MANTECA, CA 95337-0000
Owner/Operator Telephone:	209-610-1099
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JOHN LUNA
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1575 MARINO CT
Owner/Operator City,State,Zip:	MANTECA, CA 95337
Owner/Operator Telephone:	209-610-1099
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

JOHN'S MOBILE (Continued) **1024831493**

Historic Generators:
Receive Date: 2011-10-18 00:00:00.0
Handler Name: JOHN'S MOBILE
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

D16 **KAISER FOUNDATION - MANTECA** **CERS HAZ WASTE** **S121778086**
WSW **1777 W YOSEMITE AVE** **CERS TANKS** **N/A**
1/8-1/4 **MANTECA, CA 95337** **CERS**
0.133 mi.
700 ft. **Site 5 of 7 in cluster D**

Relative:
Higher

Actual:
28 ft.

CERS HAZ WASTE:
Name: KAISER FOUNDATION - MANTECA
Address: 1777 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 40960
CERS ID: 10181559
CERS Description: RCRA LQ HW Generator

Name: KAISER FOUNDATION - MANTECA
Address: 1777 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 40960
CERS ID: 10181559
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: KAISER FOUNDATION - MANTECA
Address: 1777 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 40960
CERS ID: 10181559
CERS Description: Aboveground Petroleum Storage

Name: KAISER FOUNDATION - MANTECA

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Address: 1777 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 40960
CERS ID: 10181559
CERS Description: Underground Storage Tank

CERS:
Name: KAISER FOUNDATION - MANTECA
Address: 1777 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 40960
CERS ID: 10181559
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 03-10-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/19/2020. OBSERVATION: Hazardous waste containers were observed on-site with incomplete labeling. The containers were: - Located in the hazardous waste main storage area: 1. A black container storing methylene blue, sodium salicylate, methanol, and serum controls, was missing the hazardous properties, and was marked with two accumulation start dates of 3/18/19 and 7/18/18 (see photos IMG 1150-1). 2. A black container with a white lid was missing the composition (contents) (IMG 1152). 3. A black container with a white lid was missing the composition (contents) (IMG 1153). 4. A black container with a white lid was missing the hazardous properties, physical state, and composition (contents) (IMG 1154-5). 5. A black container with a white lid was missing the composition (contents) (IMG 1159). - Located in the 1st Floor ED Overflow area: 6. A black container was labeled with the incorrect generator name and address, and was missing the hazardous properties, physical state, composition
Violation Division: San Joaquin County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-27-2017
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 06/27/2017. The diesel sump 208 sensor was tilted at an angle on top of the saddle of the tank and not located to detect a leak at the earliest opportunity. Monitoring equipment shall be maintained to be able to detect a leak at the earliest possible opportunity. The sensor was relocated to the lowest point of the sump by the service technician. Ensure that all monitoring equipment is

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

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: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-16-2015
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 06/16/2015. One 5-gallon container located inside laboratory was lacking hazardous properties. One 1-gallon and 5-gallon containers located inside the main hazardous waste accumulation area also lacked hazardous properties. 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 These containers were labeled with all required information at the time of inspection. This is a repeat violation, this was corrected onsite.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-06-2019
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 06/06/2019. The monitoring plan is not current and/or not approved by the EHD. The monitoring plan states that the piping for the UST is being monitored by a 208 sensor, however while the inspector was on site it was noted that 420 sensors were also monitoring the piping. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). The Chief engineer logged into CERS, and made the necessary changes, and submitted for review by the EHD while the inspector was on site. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 03-10-2020
Citation: HSC 6.5 25201(a) - California Health and Safety Code, Chapter 6.5, Section(s) 25201(a)
Violation Description: Failure to obtain a permit or grant of interim status to accumulate hazardous waste longer than 90 days.
Violation Notes: Returned to compliance on 05/15/2020. OBSERVATION: The following hazardous waste containers were found on-site with an accumulation

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

start date of greater than 90 days or no accumulation start date: 1. A black container, located in the hazardous waste main storage area, storing methylene blue, sodium salicylate, methanol, and serum controls, was marked with two accumulation start dates of 3/18/19 and 7/18/18 (see photos IMG 1150-1). REGULATION GUIDANCE: (a) a generator may accumulate hazardous waste on-site for 90 days or less (b) The beginning of the 90 day period is determined as follows: (1) if the generator does not generate more than 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste (listed in section 66261.33(e)) or one kilogram of extremely hazardous waste during any calendar month, the 90 day period begins on the date the generator has accumulated 100 kilograms of hazardous waste or one kilogram of acutely hazardous waste or one kilogram of extremely hazardous waste; (2) if the

Violation Division: San Joaquin County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-27-2018
Citation: 23 CCR 16 2665 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2665
Violation Description: Failure of the overfill prevention system to meet one of the following 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.
Violation Notes: Returned to compliance on 06/27/2018. The ATG used as the overfill prevention system is not currently functional on the diesel UST. The alarm sounded, but the light did was not functional. The technician replaced the light bulb and the overfill was verified as functional while on site. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 07-22-2013
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 07/22/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Violation Date:	06-06-2019
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 06/06/2019. 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. The Chief engineer made the corrections to the monitoring plan while the inspector was on site and is ensuring that the correct monitoring plan is found on site. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	07-08-2016
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 09/16/2016. Current and complete financial responsibility documents have not been submitted to the EHD; the signature of a witness or notary was missing on the submitted documentation. Current financial responsibility documents are required to be submitted annually. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, and upload the required documents.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	03-10-2020
Citation:	22 CCR 15 66265.173 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.173
Violation Description:	Failure to meet the following container management requirements: (a) A 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:	Returned to compliance on 05/15/2020. OBSERVATION: The following open hazardous waste storage containers were observed on-site: - Located in the 1st Floor ED Overflow area: 1. Two black containers with white lids labeled as containing "most in one" hazardous waste (see photos IMG 1163-7). 2. A back container with a white lid storing silver nitrate stick waste, but labeled as containing hazardous waste aerosols (IMG 1168-70). - Located in the OR Holding area: 3. A black container with a white lid labeled as containing Gemcitabine (IMG 1180-3). 4. A black container with a white lid labeled as containing alcohol prostate wipe packets (IMG 1186). - Located in the Pharmacy: 5. A black container with a white lid storing loose pills, medication/vaccine vials, and two used silver nitrate sticks (IMG 1189-93). - Located in the Environmental Services (EVS) storage room:

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

6. A black container with a white lid storing what appeared to be chemical containers (IMG 1195, 1198). 7. A black container with a white lid st

Violation Division: San Joaquin County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 03-10-2020
Citation: 22 CCR 23 66273.35 - California Code of Regulations, Title 22, Chapter 23, Section(s) 66273.35
Violation Description: Failure to accumulate universal waste for one year or less and to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received.
Violation Notes: OBSERVATION: The facility could not demonstrate that universal waste has been stored on site for no longer than one year. The following UW was stored on-site: 1. A container storing electronics, located in the 1st Floor ED Overflow area, was not marked with an accumulation start date (see photo IMG 1162). REGULATION GUIDANCE: (a) A universal waste handler shall accumulate universal waste for no longer than one year from the date the universal waste was generated, or was received from another universal waste handler. (b) A universal waste handler shall be able to demonstrate the length of time that the universal waste has been accumulated from the date it became a waste or was received. The universal waste handler may make this demonstration by: (1) Placing the universal waste in a container and marking or labeling the container with the earliest date that any universal waste in the container became a waste or was received; (2) Marking or labeling the individual item of univ
Violation Division: San Joaquin County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-25-2020
Citation: 23 CCR 16 2637(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2637(f)
Violation Description: Failure to submit a copy of the secondary containment test results on the G Secondary Containment Testing report FormG to the UPA within 30 days after the test.
Violation Notes: OBSERVATION: Secondary containment testing was performed on 4/24/2019 and a test report was submitted on 3/25/2020, ten months late. REGULATION GUIDANCE: A copy of the test report must be submitted within 30 days of the tests. CORRECTIVE ACTION: Take all necessary precautions to ensure testing and submittal of test reports are performed in a timely manner.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-16-2015
Citation: 22 CCR 12 66262.40(c) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(c)

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

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 03/10/2020. 1) No waste analysis/ determination was available for empty Warfarin blister packs, which according to the "P-Listed Pharmaceuticals and P-listed Empty Container Management" fact sheet posted on the wall of the Outpatient Pharmacy are to be "discard[ed] into solid waste or recycle[ed]". According to the pharmacy manager, this facility dispenses Warfarin in all concentrations from 1 to 10 mg. The posted fact sheet is unclear with regards to its applicability, and does not explain to which blister packs it pertains to (for example: dispensed blister packs, returned or expired blister packs), also it is unclear whether or not these discarded packs are being checked for presence of any visible Warfarin residue prior to disposal. A generator shall make a hazardous waste determination and keep a record of any test results, waste analyses, or other determinations made in accordance with hazardous waste regulations for at least three years from the date that the waste was last disposed of. I
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	07-22-2013
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 09/03/2013.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	03-10-2020
Citation:	22 CCR 15 66265.16 - California Code of Regulations, Title 22, Chapter 15, Section(s) 66265.16
Violation Description:	Failure to provide employees with hazardous waste training program of class room instructions or on-the-job training within the first six months after the date of their employment or assignment to a facility, or to a new position at a facility and annually thereafter. Training records on current personnel shall be kept until closure of the facility and for former employees the record shall be kept for at least three years from the date the employee last worked at the facility. The records shall include the following: the job title for each position at the facility related to hazardous waste management, and the name of the employee filling each job; a written job description for each position, duties of facility personnel assigned to each position, and a written description of the type and amount of both introductory and continuing training that will be given to each person filling a position.
Violation Notes:	OBSERVATION: The business operator could not produce documentation during the inspection that demonstrates employees have complete hazardous waste training as specified in this section. [LIST DETAILS OF TRAINING DOCUMENTATION THAT IS MISSING][REMEMBER TO INCLUDE TRAINING IS REQUIRED WITHIN 180 DAYS OF HIRE, ANNUAL REFRESHER][THERE

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

ARE NEW REQUIREMENTS EVERY 24 MONTHS IN SECTION (a)(4)] - Located in the Pharmacy: REGULATION GUIDANCE: (a) An owner or operator of a facility that generates hazardous waste shall ensure that facility personnel successfully complete a training program through classroom, computer-based, or electronic instruction or on-the-job training that teaches facility personnel to perform their duties in a way that ensures the facility's compliance with the requirements of this chapter. (1) The owner or operator shall ensure that the training program includes all the elements specified in this section. (2) Hazardous waste management training must be directed

Violation Division: San Joaquin County Environmental Health
Violation Program: HWLQG
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 07-22-2013
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 07/22/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 07-08-2016
Citation: 23 CCR 16 2632(d)(1)(C), 2641(h), 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2632(d)(1)(C), 2641(h), 2711(a)(8)
Violation Description: Failure to submit or update a plot plan.
Violation Notes: Returned to compliance on 07/08/2016. A legible copy of the UST Monitoring Site Plan was not submitted; the submitted map could not be opened for review. A site plan must be submitted identifying the locations where monitoring will be performed. An updated copy of the UST Monitoring Site Plan was submitted into CERS at the time of inspection. This was corrected onsite.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Violation Date: 06-06-2019
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, 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 06/06/2019. UST Tank Information forms for the diesel tank is not current in CERS. In the tank forms it states, the riser pipe to have fiberglass for secondary containment. While the inspector was out in the field, direct buried spill containers was observed. Any change of information must be updated in CERS within 30 days of the changes. The Chief engineer logged into CERS, and updated the required information, and submitted for review by the EHD while the inspector was on site. This was corrected on site.

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	07-18-2014
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 08/04/2014.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Violation Date:	03-10-2020
Citation:	22 CCR 12 66262.11 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.11
Violation Description:	Failure to determine if the waste generated is a hazardous waste.
Violation Notes:	Returned to compliance on 06/02/2020. OBSERVATIONS: 1. According to Deanne Smith, Sterile Processing Manager, 3M steam indicator tape, which she is told is lead-free, is used in steam autoclaves. However, Tonia Shaw, Safety Operations Leader, provided the SDS for the 3M Comply Steam Indicator Tape, which states the tape contains lead carbonate hydroxide. It is unclear how this tape is managed after it has been used. REGULATION GUIDANCE: Any person who generates a waste shall determine if the waste is a hazardous waste as specified in Title 22 California Code of Regulations (CCR). There are wastes that are listed as hazardous wastes. There are wastes that exhibit one or more of the hazardous waste characteristics: toxic, corrosive, reactive or ignitable. CORRECTIVE ACTION: Immediately make a hazardous waste determination for the tape containing lead carbonate hydroxide, and manage it according to Title 22 CCR. Use Safety Data Sheets (SDS), waste sampling and test results or other knowledge to support your haz
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HWLQG
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-27-2018
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 July 27, 2018. 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.

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

	Documents provided: Return to Compliance Certification form, schedule of free CUPA classes
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-08-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Routine OIR with SPCC plan
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-10-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Notes: - The inspection report was amended by adding violation 601. - The facility generated 694 pounds of P-listed RCRA acute hazardous waste in 2019, making the facility a RCRA Large Quantity Generator of hazardous waste. An inspection checklist was provided to the facility operator on the day of inspection. A complete report was amended and finished on 4/8/2020, and 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, by 5/8/2020. 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. Documents provided during inspection: Hazardous Waste Minimum L
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HWLQG
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	03-29-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Provide DA Investigator access to EHD waste site for dumpster dive waste storage.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-06-2019
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 July 6th, 2019. Document reviewed: Monitoring system certification test results from 2016, 2017, 2018 Secondary containment

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

2017, employee training, response plan, maintenance records, monitoring plan, financial responsibility documents and designated operator monthly inspection reports from July 2018- May 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: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-16-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: THIS IS A REVISED REPORT ISSUED ON JULY 7, 2015 AND IT SUPERSEDES ALL PREVIOUSLY ISSUED REPORTS. 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, 30-DAYS FROM RECEIPT OF THIS REPORT. NOTE: According to Chandra Buchanan, all vehicular maintenance at this facility is conducted at an offsite car maintenance location. 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.
Eval Division: San Joaquin County Environmental Health
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-25-2020
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 July 25, 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. Documents provided: Return to compliance certification form and corrective action statement form.
Eval Division: San Joaquin County Environmental Health
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 06-27-2017
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On site for the annual routine inspection and monitoring system verification. Violation noted: - Monitoring equipment is not installed or maintained to detect a leak at the earliest opportunity
Eval Division: San Joaquin County Environmental Health
Eval Program: UST

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	06-27-2017
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 July 27, 2017. 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:	07-08-2016
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	An inspection checklist was provided to the facility operator on the 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:	07-15-2015
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	On site to conduct a routine UST inspection and witness the annual monitoring system certification testing. No violations noted at time of inspection. 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:	07-18-2014
Violations Found:	Yes

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

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:	07-20-2017
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
Eval General Type:	Other/Unknown
Eval Date:	07-22-2013
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-22-2013
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

Enforcement Action:

Site ID:	40960
Site Name:	KAISER FOUNDATION - MANTECA
Site Address:	1777 W YOSEMITE AVE
Site City:	MANTECA
Site Zip:	95337
Enf Action Date:	06-16-2015
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

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Enf Action Division: San Joaquin County Environmental Health
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Site Address: 1777 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 06-27-2017
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: 40960
Site Name: KAISER FOUNDATION - MANTECA
Site Address: 1777 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 07-08-2016
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: 40960
Site Name: KAISER FOUNDATION - MANTECA
Site Address: 1777 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 07-18-2014
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

Site ID: 40960
Site Name: KAISER FOUNDATION - MANTECA
Site Address: 1777 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 07-22-2013
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: HW
Enf Action Source: CERS

Site ID: 40960

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Site Name:	KAISER FOUNDATION - MANTECA
Site Address:	1777 W YOSEMITE AVE
Site City:	MANTECA
Site Zip:	95337
Enf Action Date:	07-22-2013
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

Coordinates:

Site ID:	40960
Facility Name:	KAISER FOUNDATION - MANTECA
Env Int Type Code:	HWG
Program ID:	10181559
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	37.798030
Longitude:	-121.246200

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:	UST Property Owner Name
Entity Name:	KAISER FOUNDATION HOSPITALS
Entity Title:	Not reported
Affiliation Address:	ONE KAISER PLAZA
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 271-5800

Affiliation Type Desc:	UST Tank Operator
Entity Name:	MANTECA MEDICAL CENTER - ATTN: Miles McCauley
Entity Title:	Not reported
Affiliation Address:	1777 W YOSEMITE AVE
Affiliation City:	MANTECA
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	95336
Affiliation Phone:	(209) 825-3551

Affiliation Type Desc:	Environmental Contact
Entity Name:	Tonia Shaw
Entity Title:	Not reported

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Affiliation Address:	1777 W. Yosemite Avenue
Affiliation City:	Manteca
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95337
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Kaiser Foundation Hospital
Entity Title:	Not reported
Affiliation Address:	ONE KAISER PLAZA
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 271-5800
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	1777 W YOSEMITE AVE
Affiliation City:	MANTECA
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	95337
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Tonia J. Shaw
Entity Title:	Safety Operations Leader
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:	Kaiser Permanente Foundation Hospital
Entity Title:	Not reported
Affiliation Address:	One Kaiser Plaza
Affiliation City:	Oakland
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 271-5800
Affiliation Type Desc:	UST Tank Owner
Entity Name:	Kaiser Foundation Hospitals
Entity Title:	Not reported
Affiliation Address:	ONE KAISER PLAZA
Affiliation City:	OAKLAND
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	94612
Affiliation Phone:	(510) 271-5800

KAISER FOUNDATION - MANTECA (Continued) **S121778086**

Affiliation Type Desc:	Document Preparer
Entity Name:	Chandra Buchanan, Safety Specialist
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:	Engineering Department
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) 825-3700

Affiliation Type Desc:	Parent Corporation
Entity Name:	KAISER FOUNDATION - MANTECA
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:	SAM CORBIN
Entity Title:	CHIEF ENGINEER
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(209) 825-3781

D17 **ST. DOMINIC'S HOSPITAL** **CA FID UST** **S101593522**
WSW **1751 W YOSEMITE AVE** **N/A**
1/8-1/4 **MATNECA, CA 95336**
0.133 mi.
701 ft. **Site 6 of 7 in cluster D**

Relative:
Higher

Actual:
28 ft.

CA FID UST:

Facility ID:	39004260
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2098254902
Mail To:	Not reported
Mailing Address:	1805 N CALIFORNIA ST
Mailing Address 2:	Not reported
Mailing City,St,Zip:	MATNECA 95336

ST. DOMINIC'S HOSPITAL (Continued) **S101593522**

Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

D18 **ST. DOMINIC'S HOSPITAL** **SWEEPS UST** **S106932499**
WSW **1751 W YOSEMITE AVE** **N/A**
1/8-1/4 **MANTECA, CA 95336**
0.133 mi.
701 ft. **Site 7 of 7 in cluster D**

Relative: **Higher**
Actual: **28 ft.**

SWEEPS UST:

Name:	ST. DOMINIC'S HOSPITAL
Address:	1751 W YOSEMITE AVE
City:	MANTECA
Status:	Active
Comp Number:	2397
Number:	1
Board Of Equalization:	44-025023
Referral Date:	11-18-92
Action Date:	11-18-92
Created Date:	07-31-89
Owner Tank Id:	001
SWRCB Tank Id:	39-000-002397-000001
Tank Status:	A
Capacity:	8000
Active Date:	11-18-92
Tank Use:	M.V. FUEL
STG:	P
Content:	DIESEL
Number Of Tanks:	1

---

19 **FUEL FILTRATION WEST INC** **RCRA NonGen / NLR** **1004675391**
East **1406 W CENTER ST** **FINDS** **CAR000016857**
1/8-1/4 **MANTECA, CA 95337** **ECHO**
0.134 mi.
707 ft.

Relative: **Higher**
Actual: **28 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		1996-12-12 00:00:00.0
Handler Name:	FUEL FILTRATION WEST INC	
Handler Address:		1406 W CENTER ST
Handler City,State,Zip:		MANTECA, CA 95337
EPA ID:		CAR000016857
Contact Name:		MEL BROWN
Contact Address:		1406 W CENTER ST
Contact City,State,Zip:		MANTECA, CA 95337
Contact Telephone:		209-825-6011
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Private

FUEL FILTRATION WEST INC (Continued) **1004675391**

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:	W CENTER ST
Mailing City,State,Zip:	MANTECA, CA 95337
Owner Name:	MELVILLE AND JUDITH BROWN
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	Yes
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:	NN
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

FUEL FILTRATION WEST INC (Continued) **1004675391**

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:	2000-09-15 17:30:55.0
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MELVILLE AND JUDITH BROWN
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1406 W CENTER ST STE 217
Owner/Operator City,State,Zip:	MANTECA, CA 95337
Owner/Operator Telephone:	209-825-6011
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1996-12-12 00:00:00.0
Handler Name: FUEL FILTRATION WEST INC	
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 Codes:	No NAICS Codes Found

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110002915365

FUEL FILTRATION WEST INC (Continued) **1004675391**

Click Here:

Environmental Interest/Information System:
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.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1004675391
Registry ID:	110002915365
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002915365
Name:	FUEL FILTRATION WEST INC
Address:	1406 W CENTER ST
City,State,Zip:	MANTECA, CA 95337

20
ESE
1/8-1/4
0.145 mi.
768 ft.

SAVEMART SUPERMARKETS DBA SAVEMART #12 **RCRA NonGen / NLR** **1024828248**
1431 W YOSEMITE AVE **CAL000359689**
MANTECA, CA 95337

Relative:
Higher

Actual:
29 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2010-12-28 00:00:00.0
Handler Name:	SAVEMART SUPERMARKETS DBA SAVEMART #12
Handler Address:	1431 W YOSEMITE AVE
Handler City,State,Zip:	MANTECA, CA 95337-5100
EPA ID:	CAL000359689
Contact Name:	TAMMY SIBBITT
Contact Address:	1800 STANDIFORD AVE.
Contact City,State,Zip:	MODESTO, CA 95350
Contact Telephone:	209-574-6299
Contact Fax:	Not reported
Contact Email:	TAMMY.SIBBITT@SAVEMART.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:	1800 STANDIFORD AVE
Mailing City,State,Zip:	MODESTO, CA 95350-0180
Owner Name:	SAVE MART SUPERMARKETS
Owner Type:	Other
Operator Name:	TAMMY SIBBITT
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No

SAVEMART SUPERMARKETS DBA SAVEMART #12 (Continued) **1024828248**

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
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 20:33:52.0
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:	TAMMY SIBBITT

SAVEMART SUPERMARKETS DBA SAVEMART #12 (Continued) **1024828248**

Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 STANDIFORD AVE.
Owner/Operator City,State,Zip:	MODESTO, CA 95350
Owner/Operator Telephone:	209-574-6299
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SAVE MART SUPERMARKETS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1800 STANDIFORD AVE
Owner/Operator City,State,Zip:	MODESTO, CA 95350-0180
Owner/Operator Telephone:	209-577-1600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2010-12-28 00:00:00.0
Handler Name:	SAVEMART SUPERMARKETS DBA SAVEMART #12
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

E21
SE
1/8-1/4
0.154 mi.
812 ft.

H&S ENERGY PRODUCTS LLC #3034
1434 W YOSEMITE AVE
MANTECA, CA 95337

Site 1 of 6 in cluster E

RCRA NonGen / NLR **1026492419**
CAL000457203

Relative:
Higher

Actual:
29 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2020-09-29 00:00:00.0
Handler Name:	H&S ENERGY PRODUCTS LLC #3034
Handler Address:	1434 W YOSEMITE AVE
Handler City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAL000457203
Contact Name:	VICTOR HASSAN
Contact Address:	2860 N SANTIAGO BLVD
Contact City,State,Zip:	ORANGE, CA 92867-0000
Contact Telephone:	714-761-5426
Contact Fax:	714-252-5394
Contact Email:	A.HASSAN@HASOIL.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:	2860 N SANTIAGO BLVD
Mailing City,State,Zip:	ORANGE, CA 92867
Owner Name:	H&S ENERGY PRODUCTS LLC
Owner Type:	Other
Operator Name:	VICTOR HASSAN
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:	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

H&S ENERGY PRODUCTS LLC #3034 (Continued) **1026492419**

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:	2020-10-08 18:50:35.0
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:	H&S ENERGY PRODUCTS LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VICTOR HASSAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867-0000
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

H&S ENERGY PRODUCTS LLC #3034 (Continued) **1026492419**

Historic Generators:

Receive Date:	2020-09-29 00:00:00.0
Handler Name:	H&S ENERGY PRODUCTS LLC #3034
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:	447190
NAICS Description:	OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E22 **JACKPOT FOOD MART** **LUST S101592870**
SE **1434 YOSEMITE AVE W** **SWEEPS UST N/A**
1/8-1/4 **MANTECA, CA 95336** **CA FID UST**
0.155 mi. **Cortese**
819 ft. **Site 2 of 6 in cluster E** **HAZNET**
HIST CORTESE
Relative: Higher **CERS**
HWTS
Actual: 29 ft.

LUST:

Name:	JACKPOT FOOD MART
Address:	1434 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=T0607700531
Global Id:	T0607700531
Latitude:	37.796998
Longitude:	-121.238942
Status:	Completed - Case Closed
Status Date:	05/29/1997
Case Worker:	Not reported
RB Case Number:	390684
Local Agency:	Not reported
File Location:	Not reported
Local Case Number:	1465
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

JACKPOT FOOD MART (Continued) **S101592870**

Global Id: T0607700531
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: T0607700531
Action Type: Other
Date: 05/26/1992
Action: Leak Reported

Global Id: T0607700531
Action Type: Other
Date: 12/20/1991
Action: Leak Discovery

LUST:
Global Id: T0607700531
Status: Open - Case Begin Date
Status Date: 12/20/1991

Global Id: T0607700531
Status: Completed - Case Closed
Status Date: 05/29/1997

LUST REG 5:
Name: JACKPOT FOOD MART
Address: 1434 YOSEMITE AVE W
City: MANTECA
Region: 5
Status: Case Closed
Case Number: 390684
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: N/A

SWEEPS UST:
Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Not reported
Comp Number: 1465
Number: Not reported
Board Of Equalization: 44-014379
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported

JACKPOT FOOD MART (Continued) **S101592870**

Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001465-000001
Tank Status: Not reported
Capacity: 6000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Not reported
Comp Number: 1465
Number: Not reported
Board Of Equalization: 44-014379
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001465-000002
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Not reported
Comp Number: 1465
Number: Not reported
Board Of Equalization: 44-014379
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 39-000-001465-000003
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Active
Comp Number: 1465
Number: 1
Board Of Equalization: 44-014379

JACKPOT FOOD MART (Continued) **S101592870**

Referral Date: 05-13-92
Action Date: 05-13-92
Created Date: 07-12-88
Owner Tank Id: 004
SWRCB Tank Id: 39-000-001465-000004
Tank Status: A
Capacity: 12000
Active Date: 05-13-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Active
Comp Number: 1465
Number: 1
Board Of Equalization: 44-014379
Referral Date: 05-13-92
Action Date: 05-13-92
Created Date: 07-12-88
Owner Tank Id: 005
SWRCB Tank Id: 39-000-001465-000005
Tank Status: A
Capacity: 10000
Active Date: 05-13-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: JACKPOT FOOD MART
Address: 1434 W YOSEMITE AVE
City: MANTECA
Status: Active
Comp Number: 1465
Number: 1
Board Of Equalization: 44-014379
Referral Date: 05-13-92
Action Date: 05-13-92
Created Date: 07-12-88
Owner Tank Id: 006
SWRCB Tank Id: 39-000-001465-000006
Tank Status: A
Capacity: 10000
Active Date: 05-13-92
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 39000549
Regulated By: UTNKA
Regulated ID: Not reported

JACKPOT FOOD MART (Continued) **S101592870**

Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2092391792
Mail To:	Not reported
Mailing Address:	2737 W COMMODORE WAY
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:	JACKPOT FOOD MART
Address:	1434 YOSEMITE AVE W
City,State,Zip:	MANTECA, CA 95336
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700531
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:	COLONIAL ENERGY LLC DBA CE 40134
Address:	1434 W YOSEMITE AVE
Address 2:	Not reported
City,State,Zip:	MANTECA, CA 92867
Contact:	ALAEDDIN HASSAN
Telephone:	7144485000
Mailing Name:	Not reported
Mailing Address:	2860 N SANTIAGO BLVD
Year:	2018
Gepaid:	CAL000412498
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent

JACKPOT FOOD MART (Continued) **S101592870**

Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.21000
Year:	2017
Gepaid:	CAL000412498
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.084
Year:	2017
Gepaid:	CAL000412498
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.0375
Year:	2016
Gepaid:	CAL000412498
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.084
Year:	2016
Gepaid:	CAL000412498
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.075

Additional Info:

Year:	2017
Gen EPA ID:	CAL000412498
Shipment Date:	20171012
Creation Date:	6/20/2018 18:31:46
Receipt Date:	20171019
Manifest ID:	010665692FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	CAT080016116
Trans 2 Name:	NIETO AND SONS TRUCKING INC
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported

JACKPOT FOOD MART (Continued) **S101592870**

Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
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:	20170608
Creation Date:	8/1/2018 18:31:11
Receipt Date:	20170614
Manifest ID:	009697312FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0375
Waste Quantity:	75
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:	JACKPOT FOOD MART
edr_fadd1:	1434 YOSEMITE
City,State,Zip:	MANTECA, CA 95336
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390684

CERS:

Name:	JACKPOT FOOD MART
Address:	1434 YOSEMITE AVE W
City,State,Zip:	MANTECA, CA 95336
Site ID:	222709
CERS ID:	T0607700531
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

JACKPOT FOOD MART (Continued) **S101592870**

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:	COLONIAL ENERGY LLC DBA CE 40134
Address:	1434 W YOSEMITE AVE
Address 2:	Not reported
City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAL000412498
Inactive Date:	09/10/2020
Create Date:	11/19/2015
Last Act Date:	09/25/2020
Mailing Name:	Not reported
Mailing Address:	2860 N SANTIAGO BLVD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ORANGE, CA 92867
Owner Name:	COLONIAL ENERGY LLC
Owner Address:	2860 N SANTIAGO BLVD
Owner Address 2:	Not reported
Owner City,State,Zip:	ORANGE, CA 92867
Contact Name:	ALAEDDIN HASSAN
Contact Address:	2860 N SANTIAGO BLVD
Contact Address 2:	Not reported
City,State,Zip:	ORANGE, CA 928670000

NAICS:

EPA ID:	CAL000412498
Create Date:	2015-11-19 15:37:16.910
NAICS Code:	44719
NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	2015-11-19 15:37:16.90700
Inactive Date:	2020-09-10 00:00:00
Facility Name:	COLONIAL ENERGY LLC DBA CE 40134
Facility Address:	1434 W YOSEMITE AVE
Facility Address 2:	Not reported
Facility City:	MANTECA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	95337

E23 **COLONIAL ENERGY CE 40134 (DBA POWER MART)** **UST** **U004024048**
SE **1434 W YOSEMITE AVE** **N/A**
1/8-1/4 **MANTECA, CA 95337**
0.155 mi.
819 ft. **Site 3 of 6 in cluster E**

Relative:
Higher

Actual:
29 ft.

UST:

Name:	H&S ENERGY PRODUCTS,#3034
Address:	1434 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health

COLONIAL ENERGY CE 40134 (DBA POWER MART) (Continued) **U004024048**

Latitude:	37.797
Longitude:	-121.2388
Name:	COLONIAL ENERGY CE 40134 (DBA POWER MART)
Address:	1434 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Facility ID:	Not reported
Permitting Agency:	San Joaquin County Environmental Health
Latitude:	37.797
Longitude:	-121.2388

UST SAN JOAQUIN:

Name:	COLONIAL ENERGY CE 40134 (DBA POWER MART)
Address:	1434 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Region:	SJ
Facility Id:	FA0003739
Mail Address:	20 Goldenland Ct.
Mail Address 2:	Not reported
Mail Care of:	Colonial Energy
Mail City,St,Zip:	Sacramento, CA 95834
Tank Rec ID:	Not reported
Tank Number:	1
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	6000
Product Type Desc:	1a - REGULAR UNLEADED
Program Element:	2380
Decode for Program Element:	2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form:	(none)
CAS#:	Not reported
CERS ID:	10169781
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	0.0000000000
Longitude:	0.0000000000
Tank Rec ID:	Not reported
Tank Number:	2
Tank Status:	02 - Inactive, non-billable
Tank Capacity:	12000
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:	10169781
Cross Ref Tank ID:	Not reported
LEA ID:	9
Common Name:	Not reported
Date Installed:	Not reported
Date of Closure:	Not reported
Latitude:	0.0000000000

COLONIAL ENERGY CE 40134 (DBA POWER MART) (Continued) **U004024048**

Longitude: 0.0000000000

Tank Rec ID: Not reported
Tank Number: 3
Tank Status: 02 - Inactive, non-billable
Tank Capacity: 8000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2380
Decode for Program Element: 2380 - ADDITIONAL EXISTING UST - obsolete
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10169781
Cross Ref Tank ID: Not reported
LEA ID: 9
Common Name: Not reported
Date Installed: Not reported
Date of Closure: Not reported
Latitude: 0.0000000000
Longitude: 0.0000000000

Tank Rec ID: TA 0146504
Tank Number: 4
Tank Status: 01 - Active, billable
Tank Capacity: 12000
Product Type Desc: 1a - REGULAR UNLEADED
Program Element: 2361
Decode for Program Element: 2361 - UST FACILITY
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10169781
Cross Ref Tank ID: Not reported
LEA ID: 1
Common Name: Not reported
Date Installed: 9/12/1991
Date of Closure: Not reported
Latitude: 0.0000000000
Longitude: 0.0000000000

Tank Rec ID: TA 0146505
Tank Number: 5
Tank Status: 01 - Active, billable
Tank Capacity: 10000
Product Type Desc: 1c - MIDGRADE UNLEADED
Program Element: 2361
Decode for Program Element: 2361 - UST FACILITY
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10169781
Cross Ref Tank ID: Not reported
LEA ID: 1
Common Name: Not reported
Date Installed: 9/12/1991
Date of Closure: Not reported
Latitude: 0.0000000000

COLONIAL ENERGY CE 40134 (DBA POWER MART) (Continued) **U004024048**

Longitude: 0.0000000000

Tank Rec ID: TA 0146506
Tank Number: 6
Tank Status: 01 - Active, billable
Tank Capacity: 8000
Product Type Desc: 1b - PREMIUM UNLEADED
Program Element: 2361
Decode for Program Element: 2361 - UST FACILITY
Chemical Form: (none)
CAS#: Not reported
CERS ID: 10169781
Cross Ref Tank ID: Not reported
LEA ID: 1
Common Name: Not reported
Date Installed: 9/12/1991
Date of Closure: Not reported
Latitude: 0.0000000000
Longitude: 0.0000000000

E24 **TOWER MART #886** **CERS HAZ WASTE** **S113466582**
SE **1434 W YOSEMITE AVE** **CERS TANKS** **N/A**
1/8-1/4 **MANTECA, CA 95337** **HAZNET**
0.155 mi. **CERS**
819 ft. **Site 4 of 6 in cluster E** **HWTS**

Relative: Higher
Actual: 29 ft.

CERS HAZ WASTE:
Name: H&S ENERGY PRODUCTS,#3034
Address: 1434 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 162887
CERS ID: 10169781
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: H&S ENERGY PRODUCTS,#3034
Address: 1434 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 162887
CERS ID: 10169781
CERS Description: Underground Storage Tank

HAZNET:
Name: TOWER MART #886
Address: 1434 W YOSEMITE AVE
Address 2: Not reported
City,State,Zip: MANTECA, CA 95337
Contact: DESIZ BURNS
Telephone: 9162857402
Mailing Name: Not reported
Mailing Address: 1983 W 190TH ST STE 100

Year: 2015
Gepaid: CAL000327085
TSD EPA ID: CAT080013352
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10

TOWER MART #886 (Continued) **S113466582**

	percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.084
Year:	2015
Gepaid:	CAL000327085
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.05
Year:	2014
Gepaid:	CAL000327085
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.168
Year:	2014
Gepaid:	CAL000327085
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.1
Year:	2013
Gepaid:	CAL000327085
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.05
Year:	2013
Gepaid:	CAL000327085
TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.042
Year:	2012
Gepaid:	CAL000327085
TSD EPA ID:	NVT330010000
CA Waste Code:	352 - Other organic solids
Disposal Method:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Tons:	0.0375
Year:	2012
Gepaid:	CAL000327085

TOWER MART #886 (Continued) **S113466582**

TSD EPA ID:	CAT080013352
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.105
Year:	2010
Gepaid:	CAL000327085
TSD EPA ID:	CAT080013352
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.31275

Additional Info:

Year:	2015
Gen EPA ID:	CAL000327085
Shipment Date:	20150827
Creation Date:	11/4/2015 22:15:42
Receipt Date:	20150903
Manifest ID:	008700134FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
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:	20150827
Creation Date:	2/5/2016 22:15:23
Receipt Date:	20150902
Manifest ID:	008700133FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

TOWER MART #886 (Continued) **S113466582**

Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
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

Additional Info:

Year:	2014
Gen EPA ID:	CAL000327085
Shipment Date:	20140814
Creation Date:	11/7/2014 22:15:10
Receipt Date:	20140820
Manifest ID:	007623010FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.168
Waste Quantity:	40
Quantity Unit:	G
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:	20140814
Creation Date:	1/25/2015 22:15:12
Receipt Date:	20140820
Manifest ID:	007623009FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	D018
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As

TOWER MART #886 (Continued) **S113466582**

	Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
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

Additional Info:

Year:	2012
Gen EPA ID:	CAL000327085
Shipment Date:	20121030
Creation Date:	1/9/2013 22:15:34
Receipt Date:	20121108
Manifest ID:	005773650FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.105
Waste Quantity:	25
Quantity Unit:	G
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:	20121030
Creation Date:	3/22/2013 22:15:24
Receipt Date:	20121107
Manifest ID:	005773649FLE
Trans EPA ID:	CAR000183913
Trans Name:	BELSHIRE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.0375
Waste Quantity:	75

TOWER MART #886 (Continued) **S113466582**

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

Additional Info:
Year: 2013
Gen EPA ID: CAL000327085

Shipment Date: 20130806
Creation Date: 10/18/2013 22:15:07
Receipt Date: 20130816
Manifest ID: 005759917FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.042
Waste Quantity: 10
Quantity Unit: G
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: 20130806
Creation Date: 1/7/2014 22:15:06
Receipt Date: 20130814
Manifest ID: 005759916FLE
Trans EPA ID: CAR000183913
Trans Name: BELSHIRE
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY NEVADA OPERATIONS
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.05
Waste Quantity: 100
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported

TOWER MART #886 (Continued) **S113466582**

Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2010
Gen EPA ID: CAL000327085

Shipment Date: 20100916
Creation Date: 12/30/2010 18:30:17
Receipt Date: 20100924
Manifest ID: 007701818JJK
Trans EPA ID: CAR000188201
Trans Name: ENVIRONMENTAL RECOVERY SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: DEMENNO KERDOON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code: D018
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.31275
Waste Quantity: 75
Quantity Unit: G
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: H&S ENERGY PRODUCTS,#3034
Address: 1434 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 162887
CERS ID: 10169781
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-03-2014
Citation: 23 CCR 16 2636(f)(1) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2636(f)(1)
Violation Description: Failure of the double wall pressurized piping in the under dispenser containment to be continuously monitored by a method that either shuts down the flow of product to the dispenser or activates an audible/visual alarm when a leak is detected.
Violation Notes: Returned to compliance on 12/04/2014. The bravo float and chains in UDCs 1/2 and 3/4 sump (89-octane product piping) failed to stop the flow of product at the dispenser when tested. All monitoring equipment shall be maintained to activate an audible and visual alarm or stop the flow of product at the dispenser when it detects a leak. The service technician adjusted/moved the float in UDC 3/4 and verified

TOWER MART #886 (Continued) **S113466582**

functionality. The service technician replaced the float mechanism inside the UDC 1/2 and retested during the inspection with passing results. A G UST Retrofit Verification with Inspector Already OnsiteG form has been completed and provided to the operator and contractor. CORRECTED. Note: Please refer to violation 106 for more information regarding the existing UDC monitoring system and its testing.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-07-2016
Citation: 23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description: Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been properly trained.
Violation Notes: Returned to compliance on 12/15/2016. The designated operator failed to document the T1 Super unleaded, and T2 Plus unleaded 'probe out' on May 27, 2016 in the June 28, 2016 designated operator monthly inspection report. The designated operator failed to list the correct dates for the monitoring system certification, line leak detectors testing, and spill bucket (containment structure) testing on all designated operator monthly inspection reports from 12/22/2015 through 11/10/2016. The designated operator listed 12/4/2015 for all three test dates when the correct date entered should have been 12/17/2015. The designated operator did not answer items 1 through 4 on the designated operator monthly inspection report for 8/25/2016. The designated operator month inspection report was dated 9/20/2016 but the panel print out was dated 9/21/2016. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to to [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-07-2016
Citation: 23 CCR 16 2638(d) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638(d)
Violation Description: Failure to submit the Annual Monitoring System Certification Form to the CUPA within 30 days of completion of the test.
Violation Notes: Returned to compliance on 12/08/2016. A monitoring system certification, leak detector testing, and spill container testing were performed on 12/17/2015. A test report has not been submitted to the Environmental Health Department (EHD) or the California Environmental

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Reporting System (CERS). A copy of the test report must be submitted within 30 days of the test. Immediately provide this report to the EHD.

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-03-2014
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes: Returned to compliance on 12/04/2014. The designated operator failed to document all the alarms from the attached alarm history on the December 16, 2013 designated operator monthly inspection report and failed to check that they were responded to appropriately. The missing alarms include all sensor alarms from the previous monitoring system certification conducted on December 10, 2013. These alarms were documented on the January 14, 2014 designated operator monthly inspection report. The designated operator failed to document all the alarms from the attached alarm history on the February 28, 2014 designated operator monthly inspection report. The missing alarms include L1 alarm which occurred on January 30 and 31, 2014. The relevant maintenance records were present onsite for these aforementioned alarms. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of [Truncated]
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-27-2020
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 11/06/2020. OBSERVATION: An approved copy of the monitoring plans were not available for inspection. The information given under "Second Person Having Responsibility" is not current. REGULATION GUIDANCE: A copy of these plans shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

TOWER MART #886 (Continued) **S113466582**

Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-06-2017
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, 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 12/06/2017. Liquid was observed in the 87 grade and 91 grade fill sump. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed 1.5 gallons of liquid from the 87 fill sump and 1.5 gallons of liquid from the 91 grade 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:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-07-2016
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 12/08/2016. The UST monitoring plan is not current and/or not approved by the Environmental Health Department (EHD). For underground storage tanks TA0146505 and TA0146506, beneath Under Dispenser Containment (UDC) Monitoring, change "Float and Chain Assembly" to "Continuous"; and for all three tanks, beneath Under Dispenser Containment (UDC) Monitoring, change "yes" to "no" for UDC Monitoring Stops Flow of Product at Dispenser". For all three tanks, beneath Record keeping, change "no" to "yes" for Visual Inspection Records. The monitoring plan must be uploaded to the California Environmental Reporting System (CERS). Immediately log into CERS, make the necessary chanages, and submit for review by the EHD.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-06-2017
Citation:	23 CCR 16 2715(c) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)
Violation Description:	Failure to comply with one or more of the following designated operator (DO) monthly inspection requirements: Be performed by an ICC certified DO. Inspect monthly alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(f)(2).
Violation Notes:	Returned to compliance on 12/15/2017. The designated operator (DO)-Ryan Monte- failed to document all the alarms from the attached

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alarm history on the 1/29/2017 and 2/28/2017 designated operator monthly inspection report and failed to check that they were responded to appropriately. The missing alarms include: 1/9/2017: an L1 Super Sump STP SUMP fuel alarm occurred 2/9/2017: an L5 Reg Sump STP SUMP fuel alarm occurred During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports. The designated operator failed to check and note the correct test dates for the secondary containment testing on the December 2016, January 2017, February [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-27-2020
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 11/06/2020. OBSERVATION: An approved copy of the monitoring plans were not available for inspection. The information given under "Second Person Having Responsibility" is not current. REGULATION GUIDANCE: A copy of these plans shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/10/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/03/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 162887

TOWER MART #886 (Continued) **S113466582**

Site Name:	H&S Energy Products,#3034
Violation Date:	12-03-2014
Citation:	23 CCR 16 2638 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2638
Violation Description:	Failure to test leak detection equipment as required every 12 months (VPH, sensor, LLD, ATG, etc.) and/or submit monitoring system certification to the CUPA within 30 days of completion of the test
Violation Notes:	Returned to compliance on 12/04/2014. A monitoring system certification, leak detector testing, and spill container testing were performed on December 10, 2013 and a test report has not been submitted to the Environmental Health Department (EHD). A copy of the test report must be submitted within 30 days of the test. Immediately submit this test report to the EHD or log into CERS at http://cers.calepa.ca.gov and upload a copy of the test report as a miscellaneous State-Required Document in the Underground Storage Tank section. This is a Class II violation.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-04-2018
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, 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 10/04/2018. Liquid was observed in the 87 product STP, Diesel STP, UDC 7/8, and UDC 5/6 sump. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed the liquid from the 87 product STP, Diesel STP, UDC 7/8, and UDC 5/6 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:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-03-2019
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 10/03/2019. The 87 and diesel STP sump sensor was raised approximately 2 inches off the lowest point of the sump, located off the sump saddle and not located to detect a leak at the earliest opportunity. Monitoring equipment shall be maintained to be able to detect a leak at the earliest possible opportunity. The sensor was relocated to the lowest point of the sump by the service technician. Ensure that all monitoring equipment is maintained and located 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

TOWER MART #886 (Continued) **S113466582**

Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-04-2018
Citation:	23 CCR 16 2715(c)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(c)(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 10/04/2018. The designated operator employee training for Danielle Hook, Brian Jordan, Isaiah Garcia, Schelby Horton, and Jeff Atteberry did not have the hire date of the employees. 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. The manager on site was able to add the missing d
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS

Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-06-2017
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 12/08/2017. A steel 55 gallon hazardous waste drum containing fuel contaminated liquid was found on site with an incomplete lable. 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 (solid, liquid) - composition (contents) - accumulation start date Immediately label this container 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:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-27-2020
Citation:	23 CCR 16 2716(e) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2716(e)
Violation Description:	For designated operator (DO) monthly inspections conducted before October 1, 2018, failure to comply with one or more of the following requirements: Be performed by an ICC certified DO. Inspect monthly

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alarm history report, check that alarms are documented and responded to appropriately, and attach a copy. Inspect for the presence of liquid/debris in spill containers. Inspect for the presence of liquid/debris in under dispenser containment (UDC) and ensure that the monitoring equipment is positioned correctly. Inspect for liquid or debris in containment sumps where an alarm occurred with no service visit. Check that all testing and maintenance has been completed and documented. Verify that all facility employees have been trained in accordance with 23 CCR 2715(c). For designated operator (DO) 30 day inspections conducted on and after October 1, 2018, failure to conduct the designated UST operator visual inspection at least once every 30 days.

Violation Notes: Returned to compliance on 11/06/2020. 1) OBSERVATION: The designated operator failed to document all the alarms from the attached alarm history on the 1/17/2020 designated operator inspection report and failed to check that they were responded to appropriately. The missing alarms include: -L1 : Diesel STP sump fuel alarm (1/9/2020) REGULATION GUIDANCE: During the inspection, the designated operator shall review the alarm history since the previous inspection, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with documentation taken in response to any alarms to the inspection report. CORRECTIVE ACTION: Ensure that designated operators performing inspections at this facility are including all of the required information on the reports.

----- 2) OBSERVATION: The designated operator failed to check and note all required items on the visual inspection reports. The incorrect and missi

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-17-2015
Citation: 23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715

Violation Description: Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.

Violation Notes: Returned to compliance on 12/22/2015. The designated operator failed to document all the alarms from the attached alarm history on the 11-16-15, 2-13-15, and 12-31-14 designated operator monthly inspection reports and failed to check that they were responded to appropriately. The missing alarms include: 10-29-15 L6 87 annular fuel alarm and sensor out alarms, 12-15-14 L6 87 annular fuel alarm, and L1 91 stp fuel alarms on 2-6-15, 12-15-14 and 12-12-14. During the monthly inspection, the designated operator shall review the alarm history for the previous month, check that each alarm was documented and responded to appropriately, and attach a copy of the alarm history with

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documentation taken in response to any alarms to the monthly report. Ensure that designated operators performing monthly inspections at this facility are including all of the required information on the reports. The designated operator failed to verify that all employees have been trained during the 10-28-15 monthly inspection. During the [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-06-2017
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 12/15/2017. 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: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 08-03-2015
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
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 08/05/2015. 42 five gallon tanks of propane were found on site and have been reported as 18 pounds of propane on site. 5x41=210 gallons of propane witch is over the reportable quantity of 55 gallons. Any material that meets or exceeds the reportable quantity shall be reported in the facility's business plan. Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, add the materials to the hazardous material inventory, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-03-2014
Citation: 23 CCR 16 2711(a)(8) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2711(a)(8)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate plot plan.
Violation Notes: Returned to compliance on 12/04/2014. No UST Monitoring Site Plan was not submitted, the Emergency Response Contingency Plan was submitted into the California Environmental Reporting System (CERS) in lieu of the Monitoring Site Plan. A site plan (map) must be submitted identifying the locations where monitoring will be performed. Immediately log into CERS at http://cers.calepa.ca.gov/ and upload a

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copy of the UST Monitoring Site Plan. This is a minor violation.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 01/03/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-06-2017
Citation: 23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i), 2632(d)(2), 2634(e), 2641(h)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 12/15/2017. An approved copy of the UST response Plan was 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: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-03-2019
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, 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 10/03/2019. Liquid was observed in the 87 and diesel STP sump. If water could enter into the secondary containment by precipitation or infiltration, it must be removed and disposed of properly. The service technician removed the 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: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
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 01/03/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

TOWER MART #886 (Continued) **S113466582**

Violation Source:	CERS
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-27-2020
Citation:	23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i), 2632(d)(2), 2634(e), 2641(h)
Violation Description:	Failure to submit a current UST Response Plan available on site.
Violation Notes:	Returned to compliance on 11/06/2020. OBSERVATION: An approved copy of the response plan was not available for inspection. REGULATION GUIDANCE: A copy of this plan shall be accessible on site at all times. CORRECTIVE ACTION: Immediately locate and retain a copy on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-07-2016
Citation:	23 CCR 16 2715(f) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715(f)
Violation Description:	Failure to have at least one 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 12/15/2016. The designated operator employee training was last completed on 10/8/2015. 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 facility's best management practices 2. Employee's role with regard to monitoring equipment as specified in the facility's monitoring plan 3. Employee's role with regard to spills and overfills as specified in the facility'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
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-17-2015
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes:	Returned to compliance on 12/08/2016. UST Tank Information forms for the 87, 89, and 91 are not current in CERS. The tank information for all three tanks regarding fill components installed indicate "YES" for containment sump. This should be marked as "NO" since the fill components are actually direct bury at this site. The under dispenser containment (UDC) section indicates construction type as double-walled. This should be marked as "single-walled" since the UDCs

TOWER MART #886 (Continued) **S113466582**

at this facility are actually single walled. The overfill protection in the tank construction section has been unnecessarily marked "YES" for ball float and audible/visual alarms. This facility actually does not have an external audible visual alarm and in the past has been using the fill tube shut-off valve as the overfill protection mechanism. Only the fill tube shut-off valve should be marked "YES" in the overfill protection section. Any change of information must be updated in CERS within 30 days of the changes. Immediately log [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-06-2017
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 functional line leak detector (LLD) monitoring 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 leak at 10 p.s.i.g. and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 12/06/2017. The 89 grade 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 leak detector was replaced and retested during the inspection. A G UST Retrofit Verification with Inspector Already OnsiteG form has been completed and provided to the operator and contractor.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-17-2015
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain leak detection alarm logs and/or maintain records of appropriate follow-up actions
Violation Notes: Returned to compliance on 12/22/2015. Maintenance and monitoring records for the last three years were incomplete. The alarm history indicates a 2-6-15 L1 91 stp sump fuel alarm. The facility personnel did not document this alarm on the facility alarm log. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

TOWER MART #886 (Continued) **S113466582**

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-27-2020
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description: Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 11/06/2020. OBSERVATION: Maintenance and monitoring records for the last three years were not found on site. -The 2017 and 2018 monitoring system certification test reports -Secondary containment test report -Overfill prevention test report for the 87 and 91 tanks REGULATION GUIDANCE: These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. CORRECTIVE ACTION: Immediately locate and maintain all missing maintenance and monitoring records for the last three years on site and submit copies to the EHD.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
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 12/10/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
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 01/03/2014.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-10-2013
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 12/10/2013.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST

TOWER MART #886 (Continued) **S113466582**

Violation Source:	CERS
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-03-2014
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 12/04/2014. The monitoring plan is not current and/or not approved by the EHD. The submitted monitoring plan indicates that secondary containment monitoring exists in the single walled under dispenser containment (UDCs) present onsite, furthermore it indicates that UDC monitoring does not stop the flow of product at dispenser. Furthermore, as previously noted on the December 10, 2013 inspection report, Veeder Root sensors were installed at this facility inside the UDCs that still have functioning Bravo box float and chains and still have the segregated UDC sections, and because of that the installed VR-208 sensors will only detect a leak at the earliest opportunity from the 87-octane shear valve and its piping inside each UDC. As such, in addition to the VR-208 sensors, the existing bravo box float and chains for 89 and 91 products were tested during this monitoring system certification to verify functionality. As such both VR-208 and bravo box float and chain are being used as part [Truncated]
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	10-27-2020
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to retain a copy of the permit to operate at the facility.
Violation Notes:	Returned to compliance on 10/27/2020. OBSERVATION: A copy of the UST operating permit was not found on site. REGULATION GUIDANCE: A copy of the UST operating permit and all attachments and conditions shall be retained at the facility. CORRECTIVE ACTION: Immediately obtain a copy of the permit and retain it on site. This was corrected on site.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	UST
Violation Source:	CERS
Site ID:	162887
Site Name:	H&S Energy Products,#3034
Violation Date:	12-17-2015
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 12/17/2015. The 91 and 89 VMI line leak detectors 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

TOWER MART #886 (Continued) **S113466582**

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

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-27-2020
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.
Violation Notes: Returned to compliance on 11/06/2020. OBSERVATION: The facility employee training dated 10/5/2020 was completed on the old training form. REGULATION GUIDANCE: 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. CORRECTIVE ACTION: 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: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 08-03-2015
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, accurate, and up-to-date.
Violation Notes: Returned to compliance on 08/05/2015. The business plan is incomplete because the inventory list is incomplete. The business plan information needs to be reviewed and resubmitted in the California Environmental Reporting System (CERS) annually. 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. Immediately log into the 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
Violation Program: HMRRP
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-06-2017
Citation: 23 CCR 16 2712(b) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)
Violation Description: Failure to maintain monitoring and maintenance records and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 12/15/2017. Maintenance and monitoring

TOWER MART #886 (Continued) **S113466582**

records for the last three years were not found on site. On 1/9/2017, an L1: SUPER SUMP STP SUMP sensor went into a fuel alarm. The facility did not not document this alarm and failed to make sure that it was responded to appropriately. On 2/9/2017, an L5: REG SUMP STP SUMP sensor went into a fuel alarm. The facility did document the alarm but the work order was not found on site. These records shall be maintained on site for at least three years. Monitoring records include: (1) date and time of all monitoring or sampling; (2) monitoring equipment calibration and maintenance records; (3) results of any visual observations; (4) results of sample analysis performed a lab or in the field; (5) logs of all readings of gauges or other monitoring equipment, ground water elevations, or other test results; (6) results of inventory readings and reconciliations. Immediately locate and maintain all maintenance and monitoring records for the [Truncated]

Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 10-04-2018
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 functional line leak detector (LLD) monitoring 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 leak at 10 pounds per square inch and restrict or shut off the flow of product through the piping when a leak is detected.
Violation Notes: Returned to compliance on 10/12/2018. The 91 product 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. The Diesel product 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. Immediately have a properly licensed, trained, and certified contractor repair or replace the failed leak detector (LG 113-x listed, if applicable) and obtain a permit within one business day from the EHD. If the failed leak detector canG t be replaced immediately, there is a possibility that the Diesel product UST system may be red tagged to prevent fuel inputs.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-07-2016
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 line leak detector (LLD) monitoring pressurized piping to meet one or more of the following requirements:Monitor at least hourly.Be capable of detecting a release of 3.0 gallons per hour at 10 p.s.i.g. Restrict or shut off the flow of product through the piping when a leak is detected.

TOWER MART #886 (Continued) **S113466582**

Violation Notes: Returned to compliance on 12/07/2016. The 89-product 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 leak detector was replaced and retested during the inspection. A G UST Retrofit Verification with Inspector Already OnsiteG form has been completed and provided to the operator and contractor. This was corrected on site.
Violation Division: San Joaquin County Environmental Health
Violation Program: UST
Violation Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Violation Date: 12-07-2016
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 12/08/2016. UST Tank Information for all three underground storage tanks (TA0146504, TA0146505 and TA0146506) are not current in CERS. Beneath Tank Construction and beneath Overfill Protection, change "yes" to "no" for Audible/Visual Alarms. Beneath Vent, Vapor Recovery (VR) and Riser/Fill Pipe Piping Construction, under Fill Components Installed, change "yes" to "no" for Containment Sump. Beneath Under Dispenser Containment, change Construction Type to "single-walled". 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

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-04-2018
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 November 3rd, 2018. Document reviewed: Monitoring system certification test results from 2015, 2016, 2017, secondary containment testing from 2017, employee training, response plan, maintenance records, monitoring plan, financial responsibility documents and designated operator monthly inspection reports from December 2017- September 2018. Documents provided: Return to compliance certification. 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: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-27-2020
Violations Found: Yes

TOWER MART #886 (Continued) **S113466582**

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 11/26/2020. 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. Documents provided during inspection: -EHD class schedule -Return to compliance certification form -Corrective Action Statement
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-04-2014
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 January 5, 2014 Consent to perform the inspection, take photos and collect samples was given by Brandy Cummings, the store manager. This facilityG s designated operator is Anthony Chevalier (ICC expiration October 16, 2016). The service technician was Jessie Wadkins (ICC expiration date: April 29, 2015), who had the following manufacturerG s certifications: VR: May 4, 2015, VMI: February 6, 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 Owner/Operator: Written Agreement (if applicable), UST Letter from Chief Financial [Truncated]
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-06-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	An inspection report was provided to the facility operator on the day of inspection. The report was amended by the EHD. The amended report replaces the initial report. 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 amended inspection report. Note: the only thing that changed for this report was the above statement.
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-06-2017
Violations Found:	Yes

TOWER MART #886 (Continued) **S113466582**

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 1/5/2018. 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. Waste generated at this facility: fuel/ water mixture, absorbent, used filters
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-07-2016
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 Environmental Health Department (EHD) with a statement documenting the corrective actions that have been or will be taken for each violation, and any supporting paperwork, by January 6, 2017. 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:	12-10-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Joaquin County Environmental Health
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	12-10-2013
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:	12-17-2015
Violations Found:	Yes
Eval Type:	Routine done by local agency

TOWER MART #886 (Continued) **S113466582**

Eval Notes:	On site to conduct a routine underground tank inspection and witness the annual monitoring system certification testing. 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 1-17-16. 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. Note: The monitoring plan indicated that this facility uses S.Bravo float and chains and Veeder Root 208 sensors for the [Truncated]
Eval Division:	San Joaquin County Environmental Health
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-15-2019
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:	Compliance Evaluation Inspection
Eval Date:	08-03-2015
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 9/2/2015. 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
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-03-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	The monitoring system certification was conducted today (10/3/19) and was witnessed by EHD. The paperwork inspection still needs to be conducted. A checklist was left on site today; a complete report will be provided at the time of paperwork inspection. e mail report to 'sac34@sacstations.com'
Eval Division:	San Joaquin County Environmental Health

TOWER MART #886 (Continued) **S113466582**

Eval Program: UST
Eval Source: CERS

Enforcement Action:
Site ID: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 08-03-2015
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: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-04-2014
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

Site ID: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-06-2017
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: HW
Enf Action Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-06-2017
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: 162887

TOWER MART #886 (Continued) **S113466582**

Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-07-2016
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: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-10-2013
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: HW
Enf Action Source: CERS

Site ID: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-10-2013
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: 162887
Site Name: H&S Energy Products,#3034
Site Address: 1434 W YOSEMITE AVE
Site City: MANTECA
Site Zip: 95337
Enf Action Date: 12-17-2015
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

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Desiz Burns
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

TOWER MART #886 (Continued) **S113466582**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Desiz Burns
Entity Title:	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:	Parent Corporation
Entity Name:	H&S Energy Products,LLC
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:	H&S Energy LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd.
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 761-5426
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Desiz Burns
Entity Title:	Compliance Specialist
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(916) 285-7402
Affiliation Type Desc:	UST Tank Owner
Entity Name:	H&S Energy,LLC
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd.
Affiliation City:	Orange
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	92867
Affiliation Phone:	(714) 761-5426
Affiliation Type Desc:	CUPA District
Entity Name:	San Joaquin Cnty Env Health

TOWER MART #886 (Continued) **S113466582**

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: Legal Owner
Entity Name: H&S Energy Products,LLC
Entity Title: Not reported
Affiliation Address: 2860 N. Santiago Blvd. 2nd Floor
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92867
Affiliation Phone: (714) 761-5426

Affiliation Type Desc: Operator
Entity Name: H&S Energy Products,LLC
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: (714) 761-5426

Affiliation Type Desc: UST Property Owner Name
Entity Name: H&S Energy,LLC
Entity Title: Not reported
Affiliation Address: 2860 N. Santiago Blvd
Affiliation City: Orange
Affiliation State: Ca
Affiliation Country: United States
Affiliation Zip: 92867
Affiliation Phone: (714) 761-5426

Affiliation Type Desc: UST Tank Operator
Entity Name: H&S Energy Products,LLC
Entity Title: Not reported
Affiliation Address: 2860 N. Santiago Blvd. (2nd Floor)
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92867
Affiliation Phone: (714) 761-5426

Affiliation Type Desc: Environmental Contact
Entity Name: Desiz Burns
Entity Title: Not reported
Affiliation Address: 2860 N. Santiago Blvd.
Affiliation City: Orange
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92867
Affiliation Phone: Not reported

TOWER MART #886 (Continued) **S113466582**

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2860 N. Santiago Blvd
Affiliation City:	Orange
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92867
Affiliation Phone:	Not reported

HWTS:

Name:	TOWER MART #886
Address:	1434 W YOSEMITE AVE
Address 2:	Not reported
City,State,Zip:	MANTECA, CA 95337
EPA ID:	CAL000327085
Inactive Date:	12/17/2015
Create Date:	11/27/2007
Last Act Date:	09/09/2016
Mailing Name:	MARK VASEY
Mailing Address:	1983 W. 190TH ST. SUITE 100
Mailing Address 2:	Not reported
Mailing City,State,Zip:	TORRANCE, CA 90504
Owner Name:	TOWER ENERGY GROUP
Owner Address:	1983 W. 190TH ST. SUITE 100
Owner Address 2:	Not reported
Owner City,State,Zip:	TORRANCE, CA 90504
Contact Name:	DESIZ BURNS
Contact Address:	20 GOLDENLAND CT.
Contact Address 2:	Not reported
City,State,Zip:	SACRAMENTO, CA 95834

NAICS:

EPA ID:	CAL000327085
Create Date:	2007-11-27 09:05:43.283
NAICS Code:	44719
NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	2007-11-27 09:05:43.28300
Inactive Date:	2015-12-17 00:00:00
Facility Name:	TOWER MART #886
Facility Address:	1434 W YOSEMITE AVE
Facility Address 2:	Not reported
Facility City:	MANTECA
Facility County:	Not reported
Facility State:	CA
Facility Zip:	95337

E25 **JACKPOT FOOD MART*** **UST** **U003786339**
SE **1434 YOSEMITE AVE** **N/A**
1/8-1/4 **MANTECA, CA 95366**
0.155 mi.
819 ft. **Site 5 of 6 in cluster E**

Relative: UST:
Higher
Actual: Name: JACKPOT FOOD MART*
29 ft. Address: 1434 YOSEMITE AVE
City,State,Zip: MANTECA, CA 95366
Facility ID: FA0003739
Permitting Agency: Not reported
Latitude: 37.798342
Longitude: -121.2377214

E26 **MANTECA MIDAS** **RCRA NonGen / NLR** **1024830659**
ESE **1412 W YOSEMITE AVE** **CAL000365942**
1/8-1/4 **MANTECA, CA 95337**
0.178 mi.
941 ft. **Site 6 of 6 in cluster E**

Relative: RCRA NonGen / NLR:
Higher
Actual: Date Form Received by Agency: 2011-07-21 00:00:00.0
29 ft. Handler Name: MANTECA MIDAS
Handler Address: 1412 W YOSEMITE AVE
Handler City,State,Zip: MANTECA, CA 95337-5128
EPA ID: CAL000365942
Contact Name: KENNETH BECKER
Contact Address: 2368 SAN MARCO CT
Contact City,State,Zip: MANTECA, CA 95337
Contact Telephone: 209-679-5176
Contact Fax: 209-824-5959
Contact Email: MIDASMANTECA@COMCAST.NET
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: 2368 SAN MARCO CT
Mailing City,State,Zip: MANTECA, CA 95337-8231
Owner Name: KENNETH BECKER
Owner Type: Other
Operator Name: KENNETH BECKER
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

MANTECA MIDAS (Continued) **1024830659**

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 16:59:24.0
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:	KENNETH BECKER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2368 SAN MARCO CT
Owner/Operator City,State,Zip:	MANTECA, CA 95337-8231
Owner/Operator Telephone:	209-824-5959
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

MANTECA MIDAS (Continued) **1024830659**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: KENNETH BECKER
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 2368 SAN MARCO CT
Owner/Operator City,State,Zip: MANTECA, CA 95337
Owner/Operator Telephone: 209-679-5176
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2011-07-21 00:00:00.0
Handler Name: MANTECA MIDAS
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

F27 **PNS BIG LOTS #4617** **RCRA NonGen / NLR** **1024841425**
ESE **1321 W YOSEMITE AVE** **CAL000391071**
1/8-1/4 **MANTECA, CA 95337**
0.219 mi.
1157 ft. **Site 1 of 2 in cluster F**

Relative:
Higher

Actual:
30 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2013-11-06 00:00:00.0
Handler Name: PNS BIG LOTS #4617
Handler Address: 1321 W YOSEMITE AVE
Handler City,State,Zip: MANTECA, CA 95337
EPA ID: CAL000391071
Contact Name: DENA FERARU
Contact Address: 300 PHILLIPI RD.
Contact City,State,Zip: COLUMBUS, OH 43228-5311
Contact Telephone: 614-278-2708
Contact Fax: 614-278-4783

PNS BIG LOTS #4617 (Continued) **1024841425**

Contact Email:	DFERARU@BIGLOTS.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:	300 PHILLIPI RD
Mailing City,State,Zip:	COLUMBUS, OH 43228-1310
Owner Name:	PNS STORES INC
Owner Type:	Other
Operator Name:	DENA FERARU
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
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

PNS BIG LOTS #4617 (Continued) **1024841425**

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 17:03:23.0
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:	PNS STORES INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	300 PHILLIPI RD
Owner/Operator City,State,Zip:	COLUMBUS, OH 43228-1310
Owner/Operator Telephone:	614-278-6800
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	DENA FERARU
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	300 PHILLIPI RD.
Owner/Operator City,State,Zip:	COLUMBUS, OH 43228-5311
Owner/Operator Telephone:	614-278-2708
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2013-11-06 00:00:00.0
Handler Name: PNS BIG LOTS #4617	
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

PNS BIG LOTS #4617 (Continued) **1024841425**

List of NAICS Codes and Descriptions:
NAICS Code: 45299
NAICS Description: ALL OTHER GENERAL MERCHANDISE STORES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F28 **BIG LOTS MANTECA 4617** **CERS HAZ WASTE** **S121795309**
ESE **1321 WEST YOSEMITE AVE** **CERS** **N/A**
1/8-1/4 **MANTECA, CA 95337**
0.219 mi.
1157 ft. **Site 2 of 2 in cluster F**

Relative:
Higher

Actual:
30 ft.

CERS HAZ WASTE:
Name: BIG LOTS MANTECA 4617
Address: 1321 WEST YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 98688
CERS ID: 10594849
CERS Description: Hazardous Waste Generator

CERS:
Name: BIG LOTS MANTECA 4617
Address: 1321 WEST YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Site ID: 98688
CERS ID: 10594849
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 07-16-2019
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: The following observations were made in the hazardous waste (HW) storage area of the facility (see photos IMG 7383-4): 1. A bag containing used absorbent, and labeled "Snuggle" and with UPC #077180111, was found in the Corrosive Bases (CB) HW tote. The Non-Saleable Hazardous Material Checklist document, also adhered to the tote, stated the Snuggle was a detergent, although Snuggle is known to be fabric softener (a laundry additive). When Samira Hamed, Assistant Store Manager, entered the Snuggle UPC number into the hand held scanner, the scanner stated "Product Not Found." According to the Big Lot's Waste Disposal Quick Reference Guide posted on a wall next to the HW storage area, soaps and detergents are classified as Toxic HW and "some laundry additives" are classified as Corrosive Acid HW. Samira was not sure why the used absorbent containing Snuggle was

BIG LOTS MANTECA 4617 (Continued) **S121795309**

placed in the CB HW tote. (IMG 7404-5, 7408-10) 2. A partially filled 1.01 fl oz container of Dead Sea Collection Cocoa Butt

Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 11-13-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all required content.
Violation Notes: Returned to compliance on 09/10/2020. The site map was not complete. The site map is missing storm drain locations, evacuation staging area, parking lots, and adjacent streets. 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". Immediately log into the California Environmental Reporting System (CERS) at http://cers.calepa.ca.gov/, upload the correct or updated information, and submit to the EHD for approval.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 11-13-2017
Citation: HSC 6.95 25505(c) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(c)
Violation Description: Failure to have a business plan readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training.
Violation Notes: Returned to compliance on 09/10/2020. Facility could not provide the Emergency Response Plan and the Chemical inventory upon request. The emergency response plans and procedures, the inventory of information required by this article, and the site map required by this section shall be readily available to personnel of the business or the unified program facility with responsibilities for emergency response or training pursuant to this section. Immediately make arrangements to have the business plan readily available for review.
Violation Division: San Joaquin County Environmental Health
Violation Program: HMRRP
Violation Source: CERS

Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 07-16-2019
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

BIG LOTS MANTECA 4617 (Continued) **S121795309**

the environment.

Violation Notes: Spillage of Comet with Bleach Powder was found on the sales shelf containing several containers of Comet Bleach Powder. One Comet container on the shelf was found with an open damaged seal. When Samira scanned the item, the handheld scanner stated the California Generic Waste Code was TX. Samira said TX meant the item should be placed in the Toxic & State (TX & ST) hazardous waste (HW) tote. However, according to Big Lots Waste Disposal Quick Reference Guide and the oxidizer label, items containing bleach are classified as oxidizers and should be placed in the Oxidizer (OX) HW tote. (IMG 7458-7466, 7411, 7456) 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 up the Comet Bleach Powder spillage, and manage according to Title 22 hazardous waste regulations. Submit a statement and supporting documenta
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 07-16-2019
Citation: 22 CCR 12 66262.40(a) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.40(a)
Violation Description: Failure to keep a copy of each properly signed manifest for at least three years from the date the waste was accepted by the initial transporter. The manifest signed at the time the waste was accepted for transport shall be kept until receiving a signed copy from the designated facility which received the waste.
Violation Notes: Returned to compliance on 08/20/2019. Manifests number 001403218PSC (10/17/16) was not found on site at the time of inspection. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generatorG s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifest or prepare and submit the required information to DTSC. Submit to the EHD a copy of the signed off copy of t
Violation Division: San Joaquin County Environmental Health
Violation Program: HW
Violation Source: CERS

Site ID: 98688
Site Name: Big Lots Manteca 4617
Violation Date: 07-16-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical

BIG LOTS MANTECA 4617 (Continued) **S121795309**

	characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 08/20/2019. 1. The Compressed Gas & Flammable (CG & FL) HW tote contained the following liquid waste items, but the HW tote label was marked with only "solid" for the physical state (IMG 7386-91): a. Five bottles of nail polish b. A 1 fl oz container of Revlon Photoready Airbrush Effect makeup foundation Samira Hamed, Assistant Store Manager, marked liquid as the physical state on the CG & FL HW label (IMG 7448). 2. The Oxidizer (OX) HW tote contained a partially filled 1.01 fl oz container of Dead Sea Collection Cocoa Butter Facial Serum, but the HW tote label was marked with only "solid" as the physical state. (IMG 7411-20) 3. The Toxic & State Regulated (TX & ST) HW tote contained the following liquid waste items, but the HW tote label was marked with only "solid" as the physical state (IMG 7421-26, 7429, 7434-9, 7445) a. Two 1.7 fl oz containers of Pantene Pro-V hair conditioner, which were missing caps. b. A 12.6 fl oz container of Pantene Pro-V Hydra Scalp Dan
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	98688
Site Name:	Big Lots Manteca 4617
Violation Date:	07-16-2019
Citation:	22 CCR 12 66262.23(a)(4) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.23(a)(4)
Violation Description:	Failure to send a legible copy of each hazardous waste manifest to the Department within 30 days of each shipment of hazardous waste.
Violation Notes:	Returned to compliance on 08/20/2019. According to Samira Hame, Assistant Store Manager, manifests received by the facility for the disposal of hazardous waste are kept in a file binder in the facility office, and copies of the manifests are not sent or mailed anywhere. Copies of the following manifests numbers were observed on site, but are not on file with DTSC: - 002301862PSC (4/29/19) (IMG 7477) - 001954737PSC (9/16/18) - 002002416PSC (10/23/18) The generator manifest copy shall be submitted to DTSC for every shipment on a manifest when California is either the generator state or the destination or consignment state. The generator manifest copy shall be mailed to: DTSC Generator Manifests P.O. Box 400 Sacramento, CA 95812-0400 Immediately mail a copy of the manifests listed and ensure that copies of all generator manifests are sent to DTSC within 30 days of shipping hazardous waste.
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	98688
Site Name:	Big Lots Manteca 4617
Violation Date:	07-16-2019
Citation:	HSC 6.5 25123.3(h) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)
Violation Description:	Failure to determine the status of any hazardous waste if a signed copy of the manifest isnG t received within 35 days of the date the waste was accepted by the initial transporter and/or to submit an Exception Report to DTSC if a signed copy of the manifest isnG t received within 60 days of the date the waste was accepted by the initial transporter.

BIG LOTS MANTECA 4617 (Continued) **S121795309**

Violation Notes:	Returned to compliance on 08/20/2019. Manifests number 001403218PSC (10/17/16) was not found on site at the time of inspection. Hazardous waste generators shall retain copies of all manifests signed off by the destination facility on site for three years and have them readily available for review. If the generator did not receive a copy of the manifest with the handwritten signature of the owner or operator of the facility to which the generatorG s waste was submitted within 60 days of the date the waste was accepted by the initial transporter, the generator shall submit a legible copy of the missing manifest, with some indication that the generator has not received confirmation of delivery. This information shall be submitted to: DTSC Report Repository Generator Information Services Section P.O. Box 806 Sacramento, CA 95812-0806 Immediately locate a copy of the missing manifest or prepare and submit the required information to DTSC. Submit to the EHD a copy of the signed off copy of t
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS
Site ID:	98688
Site Name:	Big Lots Manteca 4617
Violation Date:	07-16-2019
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:	Returned to compliance on 08/20/2019. Based on the types of violations observed, the facility employees are not trained on proper hazardous waste (HW) handling or the training provided has been inadequate. The following observations were made in the hazardous waste storage area of the facility (IMG 7383-4): 1. A Compressed Gas & Flammable (CG & FL) HW tote contained the following liquid waste items, but the HW tote label was marked with only "solid" for the physical state (IMG 7386-91): a. Five bottles of nail polish b. A 1 fl oz container of Revlon Photoready Airbrush Effect makeup foundation Samira Hamed, Assistant Store Manager, marked liquid as the physical state on the CG & FL HW label (IMG 7448). 2. A bag containing used absorbent, and labeled "Lysol All Purpose Cleaner" and with UPC #019200752176, was found in the Corrosive Bases (CB) HW tote. However, when Samira entered the UPC number into the hand held scanner, the scanner stated the Lysol cleaner is classified as TX. Samira stated the TX m
Violation Division:	San Joaquin County Environmental Health
Violation Program:	HW
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-16-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Notes: - Violation 605 was incorrectly marked as corrected on site (COS) on the inspection checklist. This violation was not corrected on site, as indicated on the inspection report. An inspection checklist was provided to the facility operator on the day of inspection. The EHD has amended and written the complete report which replaces the initial checklist on 7/26/2019. Complete and submit a copy of the

BIG LOTS MANTECA 4617 (Continued) **S121795309**

	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 8/25/2019. 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. Provided: List of Free CUPA Training Classes, Hazardous Waste Labeling Minimum Requirements guidance sheet, 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:	11-13-2017
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 12/13/2017 . 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

Enforcement Action:

Site ID:	98688
Site Name:	Big Lots Manteca 4617
Site Address:	1321 WEST YOSEMITE AVE
Site City:	MANTECA
Site Zip:	95337
Enf Action Date:	11-13-2017
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:	Identification Signer
Entity Name:	Willis Arrington
Entity Title:	STORE OPERATIONS 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:	Operator
Entity Name:	PNS Stores Inc

BIG LOTS MANTECA 4617 (Continued) **S121795309**

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:	(614) 278-6800
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:	4900 E. Dublin Granville Rd.
Affiliation City:	Columbus
Affiliation State:	OH
Affiliation Country:	Not reported
Affiliation Zip:	43081
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Willis Arrington
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:	Environmental Contact
Entity Name:	Rocio Ramos
Entity Title:	Not reported
Affiliation Address:	19331 SOLEDAD CANYON RD
Affiliation City:	CANYON COUNTRY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91351
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	PNS Stores Inc
Entity Title:	Not reported
Affiliation Address:	4900 E. Dublin Granville Rd.
Affiliation City:	Columbus
Affiliation State:	OH
Affiliation Country:	United States
Affiliation Zip:	43081
Affiliation Phone:	(614) 278-6800

BIG LOTS MANTECA 4617 (Continued) **S121795309**

Affiliation Type Desc:	Parent Corporation
Entity Name:	Big Lots
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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29 ESE 1/4-1/2 0.298 mi. 1575 ft. **CHEVRON #9-1848** **LUST S101302566**
1257 YOSEMITE **Cortese N/A**
MANTECA, CA 95336 **HIST CORTESE**
CERS

Relative: Higher

Actual: 30 ft.

LUST:

Name:	CHEVRON #9-1848
Address:	1257 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=T0607700493
Global Id:	T0607700493
Latitude:	37.797648842
Longitude:	-121.236241148
Status:	Completed - Case Closed
Status Date:	06/28/2008
Case Worker:	Not reported
RB Case Number:	390633
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	1463
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	4 USTs removed June 1991. New/additional USTs installed. Soil contamination noted at 1991 removal and over-excavation conducted to remove most.Site entered EHD-LOP July 1991. 3 monitoring wells installed July 1991. No other remediation completed. SIte received NFA June 2008 after wells removed.

LUST:

Global Id:	T0607700493
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:	T0607700493
Action Type:	Other
Date:	07/14/1991
Action:	Leak Reported

CHEVRON #9-1848 (Continued) **S101302566**

Global Id: T0607700493
Action Type: ENFORCEMENT
Date: 06/25/1991
Action: Notice of Reimbursement

Global Id: T0607700493
Action Type: Other
Date: 06/26/1991
Action: Leak Discovery

Global Id: T0607700493
Action Type: ENFORCEMENT
Date: 02/22/2007
Action: Technical Correspondence / Assistance / Other

Global Id: T0607700493
Action Type: ENFORCEMENT
Date: 06/26/2008
Action: Closure/No Further Action Letter

LUST:
Global Id: T0607700493
Status: Open - Case Begin Date
Status Date: 06/25/1991

Global Id: T0607700493
Status: Open - Remediation
Status Date: 07/14/1991

Global Id: T0607700493
Status: Open - Site Assessment
Status Date: 04/04/1997

Global Id: T0607700493
Status: Open - Site Assessment
Status Date: 03/18/2007

Global Id: T0607700493
Status: Completed - Case Closed
Status Date: 06/28/2008

LUST REG 5:
Name: CHEVRON #9-1848
Address: 1257 YOSEMITE AVE W
City: MANTECA
Region: 5
Status: Leak being confirmed
Case Number: 390633
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 1

CHEVRON #9-1848 (Continued) **S101302566**

CORTESE:

Name:	CHEVRON #9-1848
Address:	1257 YOSEMITE AVE W
City,State,Zip:	MANTECA, CA 95336
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607700493
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:	CHEVRON #9-1848
edr_fadd1:	1257 YOSEMITE
City,State,Zip:	MANTECA, CA 95336
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390633

CERS:

Name:	CHEVRON #9-1848
Address:	1257 YOSEMITE AVE W
City,State,Zip:	MANTECA, CA 95336
Site ID:	206289
CERS ID:	T0607700493
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

G30
WSW
1/4-1/2
0.327 mi.
1724 ft.

TED PETERS TRUCKING COMPANY
1985 W YOSEMITE
MANTECA, CA 95336

Site 1 of 2 in cluster G

CPS-SLIC
SWEEPS UST
CA FID UST
CERS

S101592719
N/A

Relative:
Lower

Actual:
27 ft.

CPS-SLIC:

Name:	TED PETERS TRUCKING MANTECA FACILITY
Address:	1985 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA
Region:	STATE
Facility Status:	**Completed - Case Closed**
Status Date:	02/21/2019
Global Id:	SL372563620
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Lead Agency Case Number:	Not reported
Latitude:	37.7983530815636
Longitude:	-121.249666213989
Case Type:	Cleanup Program Site
Case Worker:	GKR
Local Agency:	Not reported
RB Case Number:	SL372563620
File Location:	Regional Board
Potential Media Affected:	Not reported
Potential Contaminants of Concern:	* Volatile Organic Compounds (VOC), * Petroleum - Diesel fuels, * Petroleum - Automotive gasolines
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

SWEEPS UST:

Name:	TED PETERS TRUCKING COMPANY
Address:	1985 W YOSEMITE
City:	MANTECA
Status:	Active
Comp Number:	1427
Number:	1
Board Of Equalization:	44-024688
Referral Date:	05-28-92
Action Date:	05-28-92
Created Date:	07-11-88
Owner Tank Id:	001
SWRCB Tank Id:	39-000-001427-000001
Tank Status:	A
Capacity:	10000
Active Date:	05-28-92
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	39000228
Regulated By:	UTNKA
Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2098584138

TED PETERS TRUCKING COMPANY (Continued) **S101592719**

Mail To: Not reported
Mailing Address: P O BOX 831
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

CERS:
Name: TED PETERS TRUCKING MANTECA FACILITY
Address: 1985 W YOSEMITE AVE
City,State,Zip: MANTECA, CA
Site ID: 249728
CERS ID: SL372563620
CERS Description: Cleanup Program Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: GEOFFREY RADER - CENTRAL VALLEY RWQCB (REGION 5S)
Entity Title: Not reported
Affiliation Address: 11020 Sun Center Drive, Suite 200
Affiliation City: RANCHO CORDOVA
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9164644707

G31 **TED PETERS TRUCKING** **LUST** **S101302568**
WSW **1985 YOSEMITE AVE W** **CPS-SLIC** **N/A**
1/4-1/2 **MANTECA, CA 95336** **Cortese**
0.327 mi. **HIST CORTESE**
1724 ft. **Site 2 of 2 in cluster G** **CERS**

Relative:
Lower

Actual:
27 ft.

LUST:
Name: TED PETERS TRUCKING
Address: 1985 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=T0607700217
Global Id: T0607700217
Latitude: 37.798335
Longitude: -121.249579
Status: Completed - Case Closed
Status Date: 09/30/2003
Case Worker: Not reported
RB Case Number: 390295
Local Agency: Not reported
File Location: Not reported
Local Case Number: 1427
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

TED PETERS TRUCKING (Continued) **S101302568**

LUST:
Global Id: T0607700217
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: T0607700217
Action Type: Other
Date: 10/19/1988
Action: Leak Reported

Global Id: T0607700217
Action Type: Other
Date: 10/17/1988
Action: Leak Discovery

Global Id: T0607700217
Action Type: ENFORCEMENT
Date: 08/18/2000
Action: Other Report - #8/18/2000

Global Id: T0607700217
Action Type: ENFORCEMENT
Date: 06/14/2001
Action: Other Report - #6/14/2001

Global Id: T0607700217
Action Type: ENFORCEMENT
Date: 06/09/2000
Action: Other Report - #6/9/2000

LUST:
Global Id: T0607700217
Status: Open - Case Begin Date
Status Date: 10/17/1988

Global Id: T0607700217
Status: Open - Site Assessment
Status Date: 07/30/1997

Global Id: T0607700217
Status: Completed - Case Closed
Status Date: 09/30/2003

LUST REG 5:
Name: TED PETERS TRUCKING
Address: 1985 YOSEMITE AVE W
City: MANTECA
Region: 5

TED PETERS TRUCKING (Continued) **S101302568**

Status: Case Closed
Case Number: 390295
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 1

SLIC REG 5:
Name: Ted Peter's Trucking
Address: 1985 Yosemite Ave W
City: Manteca
Region: 5
Facility Status: RI
Unit: Facility is a Spill or site
Pollutant: TPH-d, g, MTBE, VOC
Lead Agency: DLL
Date Filed: / /
Report Date: / /
Date Added: Not reported
Date Closed: Not reported

CORTESE:
Name: TED PETERS TRUCKING
Address: 1985 YOSEMITE AVE W
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700217
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: TED PETERS TRUCKING
edr_fadd1: 1985 YOSEMITE
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA

TED PETERS TRUCKING (Continued) **S101302568**

Reg Id: 390295

CERS:
Name: TED PETERS TRUCKING
Address: 1985 YOSEMITE AVE W
City,State,Zip: MANTECA, CA 95336
Site ID: 212157
CERS ID: T0607700217
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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32 **SATELLITE HOUSING** **ENVIROSTOR** **S108484761**
West **280 AND 282 N. AIRPORT** **VCP** **N/A**
1/4-1/2 **MANTECA, CA 95337**
0.330 mi.
1744 ft.

Relative:
Lower

Actual:
26 ft.

ENVIROSTOR:
Name: SATELLITE HOUSING
Address: 280 AND 282 N. AIRPORT
City,State,Zip: MANTECA, CA 95337
Facility ID: 60000626
Status: Inactive - Action Required
Status Date: 03/16/2009
Site Code: 101875
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 3.2
NPL: NO
Regulatory Agencies: SMBRP, SAN JOAQUIN COUNTY
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: Fernando A. Amador
Division Branch: Cleanup Sacramento
Assembly: 12
Senate: 05
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.80046
Longitude: -121.2523
APN: NONE SPECIFIED
Past Use: PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC: Chlordane
Confirmed COC: Chlordane
Potential Description: SOIL

SATELLITE HOUSING (Continued) **S108484761**

Alias Name: 110033610028
Alias Type: EPA (FRS #)
Alias Name: 101875
Alias Type: Project Code (Site Code)
Alias Name: 60000626
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 07/10/2007
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Report
Completed Date: 10/28/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Standard Voluntary Agreement
Completed Date: 06/18/2007
Comments: DTSC entered into a Voluntary Cleanup Agreement for oversight of preparation and implementation of a Removal Action workplan.

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

VCP:
Name: SATELLITE HOUSING
Address: 280 AND 282 N. AIRPORT
City,State,Zip: MANTECA, CA 95337
Facility ID: 60000626
Site Type: Voluntary Cleanup
Site Type Detail: Voluntary Cleanup
Site Mgmt. Req.: NONE SPECIFIED
Acres: 3.2
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP, SAN JOAQUIN COUNTY
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Fernando A. Amador
Division Branch: Cleanup Sacramento
Site Code: 101875
Assembly: 12
Senate: 05
Special Programs Code: Voluntary Cleanup Program

SATELLITE HOUSING (Continued) **S108484761**

Status:	Inactive - Action Required
Status Date:	03/16/2009
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	37.80046 / -121.2523
APN:	NONE SPECIFIED
Past Use:	PESTICIDE/INSECTIDE/RODENTICIDE STORAGE
Potential COC:	30004
Confirmed COC:	30004
Potential Description:	SOIL
Alias Name:	110033610028
Alias Type:	EPA (FRS #)
Alias Name:	101875
Alias Type:	Project Code (Site Code)
Alias Name:	60000626
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Workplan
Completed Date:	07/10/2007
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Characterization Report
Completed Date:	10/28/2008
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Standard Voluntary Agreement
Completed Date:	06/18/2007
Comments:	DTSC entered into a Voluntary Cleanup Agreement for oversight of preparation and implementation of a Removal Action workplan.
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

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33 **MANTECA CITY DUMP** **SWF/LF S102362319**
ENE **305 N. UNION ROAD, MANTECA, CA 95337** **CERS N/A**
1/4-1/2 **MANTECA, CA 95337**
0.370 mi.
1951 ft.

Relative:
Higher

Actual:
29 ft.

SWF/LF (SWIS):

Name:	MANTECA CITY DUMP
Address:	305 N. UNION ROAD, MANTECA, CA 95337
City,State,Zip:	MANTECA, CA 95337
Region:	STATE

MANTECA CITY DUMP (Continued) **S102362319**

Facility ID:	39-CR-0024
SWIS Number:	39-CR-0024
Point of Contact:	Sabra Ambrose
Is Archived:	No
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Closed
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
ARB District:	San Joaquin Valley Unified
SWRCB Region:	Central Valley
Local Government:	Manteca
Reporting Agency Legal Name:	County of San Joaquin
Reporting Agency Department:	Environmental Health Department
Enforcing Agency Legal Name:	County of San Joaquin
Enforcing Agency Department:	Environmental Health Department
Regulation Status:	Pre-regulation

Activity:

SWIS Number:	39-CR-0024
Site Name:	Manteca City Dump
Activity:	Solid Waste Disposal Site
Activity Is Archived:	No
Category:	Disposal
Activity Classification:	Solid Waste Disposal Site
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	12/31/1963
Cease Operation Type:	Estimated
Inspection Frequency:	Quarterly
Throughput:	Not reported
Throughput Units:	Not reported
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	Not reported
Capacity Units:	Not reported
Total Acreage:	Not reported
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Sabra Ambrose
Site Operational Status:	Closed
Site Regulatory Status:	Pre-regulation
Site Is Archived:	No
Is Closed Illegal Abandoned:	Yes
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	C2
EPA Federal Registry ID:	Not reported
County:	San Joaquin
ARB District:	San Joaquin Valley Unified

MANTECA CITY DUMP (Continued) **S102362319**

SWRCB Region:	Central Valley
Local Government:	Manteca
Street Address:	305 N. Union Road, Manteca, Ca 95337
City:	Manteca
State:	CA
ZIP Code:	95337
Reporting Agency Legal Name:	County of San Joaquin
Reporting Agency Department:	Environmental Health Department
Enforcing Agency Legal Name:	County of San Joaquin
Enforcing Agency Department:	Environmental Health Department

Operator:

SWIS Number:	39-CR-0024
Site Name:	Manteca City Dump
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Pre-regulation
Latitude:	37.80153
Longitude:	-121.23769
Is Archived:	No
Operator:	City Of Manteca
Started On:	8/16/1994
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(209) 239-9511
Street Address:	1001 W Center St
Operator City:	Manteca
Operator State:	CA
Operator Zip:	95337

Owner:

SWIS Number:	39-CR-0024
Owner:	City Of Manteca
Owner Address:	1001 W Center St
Owner City:	Manteca
Owner State:	CA
Owner Zip:	95337
Site Name:	Manteca City Dump
Site Operational Status:	Closed
Site Type:	Disposal Only
Site Regulatory Status:	Pre-regulation
Latitude:	37.80153
Longitude:	-121.23769
Is Archived:	No
Started On:	8/16/1994
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(209) 239-9511

CERS:

Name:	MANTECA CITY DUMP
Address:	305 N. UNION ROAD, MANTECA, CA 95337
City,State,Zip:	MANTECA, CA

MANTECA CITY DUMP (Continued) **S102362319**

Site ID: 510001
CERS ID: 39-CR-0024
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: City of Manteca
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Manteca
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95336
Affiliation Phone: 2092399511

Affiliation Type Desc: Legal Owner
Entity Name: City of Manteca
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Manteca
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 95336
Affiliation Phone: 2092399511

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34 ESE 1/4-1/2 0.388 mi. 2047 ft. **PAYLESS SHOE STORE** **LUST S105174038**
1160 YOSEMITE AVE W **Cortese N/A**
MANTECA, CA 95337 **CERS**

Relative: Higher
Actual: 31 ft.

LUST:
Name: PAYLESS SHOE STORE
Address: 1160 YOSEMITE AVE W
City,State,Zip: MANTECA, CA 95337
Lead Agency: SAN JOAQUIN COUNTY
Case Type: LUST Cleanup Site
Geo Track: http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607791885
Global Id: T0607791885
Latitude: 37.797263
Longitude: -121.233915
Status: Completed - Case Closed
Status Date: 07/23/2009
Case Worker: Not reported
RB Case Number: 391117
Local Agency: Not reported
File Location: Local Agency
Local Case Number: 0001284
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Benzene, Toluene, Xylene, Gasoline
Site History: Five USTs were removed in 1983. In August 2001 a site investigation was performed involving the advancement of four borings (GP-1 through GP-4) and gasoline constituents were detected in soil collected from boring GP-1 . September 2003, seven soil borings (B-1 through B-7) were advanced. Monitoring wells MW-1 and MW-2 were installed in September 2003, and MW-3 through MW-5 were installed in May 2004. Soil borings CPT-1 through CPT-4 were advanced in November 2007.

PAYLESS SHOE STORE (Continued) **S105174038**

LUST:
Global Id: T0607791885
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: T0607791885
Action Type: Other
Date: 09/18/2001
Action: Leak Reported

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 04/22/2002
Action: * No Action

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 07/22/2009
Action: Technical Correspondence / Assistance / Other - #07/22/2009

Global Id: T0607791885
Action Type: REMEDIATION
Date: 09/05/2003
Action: Monitored Natural Attenuation

Global Id: T0607791885
Action Type: Other
Date: 09/18/2001
Action: Leak Discovery

Global Id: T0607791885
Action Type: RESPONSE
Date: 06/19/2009
Action: Correspondence

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 02/13/2008
Action: File review

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 09/14/2011
Action: File review

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 03/12/2009
Action: File review

PAYLESS SHOE STORE (Continued) **S105174038**

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 11/10/2011
Action: LOP Case Closure Summary to RB

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 02/02/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 12/07/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 12/02/2011
Action: Technical Correspondence / Assistance / Other

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 06/21/2010
Action: File review

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 09/17/2010
Action: Technical Correspondence / Assistance / Other - #09/17/2010

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 04/06/2009
Action: Staff Letter - #04/06/2009

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 12/18/2009
Action: File review

Global Id: T0607791885
Action Type: ENFORCEMENT
Date: 07/07/2012
Action: State Water Board Closure Order

LUST:
Global Id: T0607791885
Status: Open - Case Begin Date
Status Date: 09/18/2001

Global Id: T0607791885
Status: Open - Site Assessment
Status Date: 09/04/2003

Global Id: T0607791885
Status: Open - Site Assessment
Status Date: 05/24/2004

PAYLESS SHOE STORE (Continued) **S105174038**

Global Id: T0607791885
Status: Open - Site Assessment
Status Date: 11/12/2007

Global Id: T0607791885
Status: Completed - Case Closed
Status Date: 07/23/2009

Global Id: T0607791885
Status: Open - Verification Monitoring
Status Date: 07/23/2009

LUST REG 5:
Name: PAYLESS SHOE STORE
Address: 1160 YOSEMITE AVE W
City: MANTECA
Region: 5
Status: Not reported
Case Number: 391117
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 0

CORTESE:
Name: PAYLESS SHOE STORE
Address: 1160 YOSEMITE AVE W
City,State,Zip: MANTECA, CA 95337
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607791885
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

CERS:
Name: PAYLESS SHOE STORE
Address: 1160 YOSEMITE AVE W

PAYLESS SHOE STORE (Continued) **S105174038**

City,State,Zip: MANTECA, CA 95337
Site ID: 238339
CERS ID: T0607791885
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

H35 **GO GREEN RECYCLING INC** **SWRCY** **S110326837**
WSW **2066 W YOSEMITE AVE** **NPDES** **N/A**
1/4-1/2 **MANTECA, CA 95337**
0.422 mi.
2230 ft. **Site 1 of 2 in cluster H**

Relative: **Lower**
Actual: **27 ft.**

SWRCY:
Name: GO GREEN RECYCLING INC
Address: 2066 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Reg Id: 54945
Cert Id: RC14783
Mailing Address: 2631 Amatchi Ct
Mailing City: Tracy
Mailing State: CA
Mailing Zip Code: 95304
Website: Not reported
Email: gogreenrecyclers@yahoo.com
Phone Number: (209) 462-8473
Rural: N
Operation Begin Date: 06/12/2010
Aluminium: Y
Glass: Y
Plastic: Y
Bimetal: Y
Hours of Operation: Mon - Fri 9:00 am - 4:45 pm; Sat - Sun 10:00 am - 3:45 pm
Organization ID: 34058
Organization Name: Go Green Recycling Inc

NPDES:
Name: GO GREEN RECYCLING INC
Address: 2066 W YOSEMITE AVE
City,State,Zip: MANTECA, CA 95337
Facility Status: Active
NPDES Number: CAS000001
Region: 5S
Agency Number: 0
Regulatory Measure ID: 484897
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 5S39I028520

GO GREEN RECYCLING INC (Continued) **S110326837**

Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/07/2020
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	2214 Robindale Ave
Discharge Name:	Go Green Recycling Inc
Discharge City:	Stockton
Discharge State:	California
Discharge Zip:	95205
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

Name:	GO GREEN RECYCLING INC
Address:	2066 W YOSEMITE AVE
City,State,Zip:	MANTECA, CA 95337
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	5S39I028520
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/07/2020
Operator Name:	Go Green Recycling Inc
Operator Address:	2214 Robindale Ave
Operator City:	Stockton
Operator State:	California
Operator Zip:	95205

H36 **FRANK'S EXXON #3** **LUST** **S101302569**
WSW **2072 YOSEMITE** **Cortese** **N/A**
1/4-1/2 **MANTECA, CA 95336** **HIST CORTESE**
0.440 mi.
2321 ft. **Site 2 of 2 in cluster H**

Relative: **Lower**
Actual: **27 ft.**

LUST:

Name:	FRANK'S ONE STOP
Address:	2072 YOSEMITE AVE W
City,State,Zip:	MANTECA, CA 95336-9604
Lead Agency:	CENTRAL VALLEY RWQCB (REGION 5S)
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607700558
Global Id:	T0607700558
Latitude:	37.797031673
Longitude:	-121.2519299
Status:	Open - Verification Monitoring
Status Date:	10/29/2012
Case Worker:	AMB
RB Case Number:	390720
Local Agency:	Not reported
File Location:	Regional Board
Local Case Number:	1426
Potential Media Affect:	Well used for drinking water supply
Potential Contaminants of Concern:	Benzene, Ethylbenzene, Gasoline, MTBE / TBA / Other Fuel Oxygenates, Toluene, Xylene
Site History:	The case was opened following an unauthorized release from an underground storage tank system at the subject site. Corrective action is underway as directed by the CVRWQCB. Corrective action may consist of preliminary site investigation, planning and implementation of remedial action, verification monitoring, or a combination thereof. A summary of the site history is available by clicking on either the "Cleanup Status History", "Regulatory Activities" or the "Site Maps/Documents" tab. For a complete site history the case file at the CVRWQCB should be consulted.

LUST:

Global Id:	T0607700558
Contact Type:	Regional Board Caseworker
Contact Name:	ALAN M. BUEHLER
Organization Name:	CENTRAL VALLEY RWQCB (REGION 5S)
Address:	11020 Sun Center Dr
City:	RANCHO CORDOVA
Email:	alan.buehler@waterboards.ca.gov
Phone Number:	9164644615

LUST:

Global Id:	T0607700558
Action Type:	ENFORCEMENT
Date:	09/02/2016
Action:	Notification - Public Participation Document
Global Id:	T0607700558
Action Type:	REMEDIATION
Date:	10/06/2000
Action:	Pump & Treat (P&T) Groundwater
Global Id:	T0607700558
Action Type:	REMEDIATION

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 01/01/2003
Action: Monitored Natural Attenuation

Global Id: T0607700558
Action Type: REMEDIATION
Date: 12/20/2001
Action: Soil Vapor Extraction (SVE)

Global Id: T0607700558
Action Type: Other
Date: 05/20/1992
Action: Leak Reported

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/17/2005
Action: Site Visit / Inspection / Sampling - #20

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/27/2007
Action: Staff Letter - #33

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/27/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/15/2003
Action: Other Workplan

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2006
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2006
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2006
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/21/2006
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/30/2005
Action: Correspondence

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/01/2006
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/16/2004
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2006
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2006
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/04/2004
Action: Staff Letter - #13

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Technical Correspondence / Assistance / Other - #39

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/20/2007
Action: Meeting - #31

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/14/2007
Action: Staff Letter - #32

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/07/2007
Action: Staff Letter - #34

Global Id: T0607700558
Action Type: ENFORCEMENT

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 05/03/2007
Action: Staff Letter - #37

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/23/2012
Action: Correspondence

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/20/2003
Action: * Historical Enforcement - #56874

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/13/2013
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2014
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2014
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/31/2000
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/28/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/27/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/16/2013
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/10/2015
Action: Site Visit / Inspection / Sampling

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2013
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2013
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/23/2012
Action: Correspondence - Regulator Responded

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/30/2013
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2012
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/01/2016
Action: Letter - Notice

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/15/2013
Action: Other Report / Document - Regulator Responded

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/28/2016
Action: Access Agreement

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/27/2016
Action: Other Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2013
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/24/2016
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0607700558
Action Type: ENFORCEMENT

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 10/18/2016
Action: Access Agreement

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/04/2015
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 06/12/2020
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/02/2020
Action: Staff Letter

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/06/2007
Action: Verbal Communication

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/09/2003
Action: * Verbal Communication - #56882

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/01/2006
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/01/2006
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/01/2006
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2006
Action: Monitoring Report - Quarterly

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/18/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2006
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/20/2003
Action: * Referral to Regional Board or Another State Agency - #56874

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/09/2003
Action: * Referral to Regional Board or Another State Agency - #56882

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/01/2006
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/03/2007
Action: Verbal Communication

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/05/2007
Action: Staff Letter - #35

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/24/2007
Action: Technical Correspondence / Assistance / Other - #36

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/08/2006
Action: Staff Letter - #23

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/03/2006
Action: Staff Letter - #22

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/22/2010
Action: Verbal Communication

Global Id: T0607700558
Action Type: ENFORCEMENT

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 12/18/2007
Action: Technical Correspondence / Assistance / Other - #48

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Technical Correspondence / Assistance / Other - #46

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/28/2006
Action: Staff Letter - #30

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/13/2006
Action: Notice of Public Hearing / Board Action - #27

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/15/2012
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/30/2014
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2015
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/31/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/26/1994
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/18/2002
Action: Monitoring Report - Other

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/10/2016
Action: Access Agreement

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: Other
Date: 05/19/1992
Action: Leak Discovery

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2009
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2010
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2010
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/01/2009
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/01/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/08/2006
Action: Unknown

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/22/2006
Action: Verbal Communication

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/13/2006
Action: Other Workplan

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 11/30/2006
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2005
Action: Correspondence

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/28/2007
Action: Notice of Public Hearing / Board Action - #41

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Technical Correspondence / Assistance / Other - #38

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/08/2005
Action: Site Visit / Inspection / Sampling - #19

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/28/2012
Action: Correspondence

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/04/2008
Action: Preparation of Agenda Item

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/07/2009
Action: File review

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/03/2015
Action: Correspondence

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/07/2009
Action: File review

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/16/2000
Action: Interim Remedial Action Report

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/22/2011
Action: Site Visit / Inspection / Sampling

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/24/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/06/2001
Action: Well Installation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/06/1997
Action: Phase I Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2006
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2000
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 06/13/2018
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 01/04/2016
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/25/2019
Action: Staff Letter

Global Id: T0607700558
Action Type: Other
Date: 06/01/1998
Action: Leak Stopped

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2011
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 05/01/2009
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/01/2009
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/01/2005
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/01/2005
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/01/2005
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2005
Action: Correspondence

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/24/2003
Action: Site Visit / Inspection / Sampling - #2

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/03/2003
Action: * Historical Enforcement - #56882

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/29/2003
Action: Staff Letter - #6

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/18/2003
Action: Clean-up and Abatement Order - #CAO # R5-2003-0713

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/22/2003
Action: Staff Letter - #4

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/28/2003
Action: Staff Letter - #5

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/03/2004
Action: Staff Letter - #8

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/31/2003
Action: Staff Letter - #7

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 07/26/2004
Action: Meeting - #12

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/12/2004
Action: Meeting - #9

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/01/2004
Action: Staff Letter - #14

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 04/25/2005
Action: Site Visit / Inspection / Sampling - #18

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/31/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/01/2007
Action: Technical Correspondence / Assistance / Other - #43

Global Id: T0607700558
Action Type: ENFORCEMENT

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 10/11/2006
Action: Staff Letter - #24

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/27/2006
Action: Meeting - #29

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/17/2006
Action: Staff Letter - #28

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/30/2011
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/27/2007
Action: Technical Correspondence / Assistance / Other - #45

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 01/23/2008
Action: Technical Correspondence / Assistance / Other - #49

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/03/2007
Action: Notice of Public Hearing / Board Action - #47

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/06/2007
Action: Verbal Communication - #44

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/30/2014
Action: Fact Sheets - Public Participation

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2015
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/25/2008
Action: Verbal Enforcement

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/02/2008
Action: Staff Letter

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 07/08/2010
Action: Meeting

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/05/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/09/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/07/2002
Action: Well Installation Report

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 06/14/2011
Action: Site Visit / Inspection / Sampling

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/29/2003
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/29/2003
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2000
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/05/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/21/2001
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/27/2004
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 02/11/2011
Action: Site Visit / Inspection / Sampling

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2001
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/16/1999
Action: Soil and Water Investigation Report

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/15/2012
Action: Staff Letter

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/21/2002
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 06/26/2012
Action: Staff Letter

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/12/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/10/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/15/2005
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/23/2001
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/27/2004
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/08/2002
Action: Well Installation Report

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 09/01/2010
Action: Notice of Public Hearing / Board Action

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/23/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 01/12/2011
Action: Meeting

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/28/1997
Action: Site Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/25/2006
Action: Site Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/16/2000
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/05/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/29/2010
Action: Site Visit / Inspection / Sampling

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/25/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/15/2001
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/21/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 11/07/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/06/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/30/2002
Action: Remedial Progress Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/17/2006
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/05/2000
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2014
Action: Monitoring Report - Quarterly - Regulator Responded

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/24/2016
Action: Notification - Public Notice of ROD/RAP/CAP

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/16/2016
Action: Clean Up Fund - Case Closure Review Summary Report (RSR)

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/04/2015
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/26/2015
Action: Meeting

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 01/28/2021
Action: Staff Letter

Global Id: T0607700558
Action Type: Other
Date: 05/19/1992
Action: Leak Began

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/21/2007
Action: Technical Correspondence / Assistance / Other - #40

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/31/2007
Action: Technical Correspondence / Assistance / Other - #42

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/01/2005
Action: Electronic Reporting Submittal Due

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/01/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/30/2004
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/29/2004
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/16/2004
Action: Notice of Violation - #16

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/31/2005
Action: Administrative Civil Liabilities Complaint - #21

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/30/2007
Action: Other Workplan

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/29/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/01/2007
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 02/01/2008
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/30/2004
Action: Site Visit / Inspection / Sampling - #10

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/18/2004
Action: Staff Letter - #11

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/16/2004
Action: * Historical Enforcement - #15

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/16/2004
Action: * Historical Enforcement - #17

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/24/2006
Action: Staff Letter - #26

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/20/2006
Action: Staff Letter - #25

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/30/2011
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/31/2012
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/30/2012
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/30/2015
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 03/30/2009
Action: Site Visit / Inspection / Sampling

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/25/2014
Action: Correspondence

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/21/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/14/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/02/2000
Action: Final Remedial Action Report / Corrective Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/23/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 01/30/2015
Action: Meeting

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/08/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/17/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/26/2001
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/16/1998
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/10/1998
Action: Tank Removal Report / UST Sampling Report

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 02/07/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/25/2001
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/29/2000
Action: Soil and Water Investigation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/28/2003
Action: Monitoring Report - Semi-Annually

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/21/2005
Action: Monitoring Report - Semi-Annually

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/25/2002
Action: Well Installation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/28/2002
Action: Well Installation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/28/1997
Action: Phase I Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/28/1998
Action: Monitoring Report - Other

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/09/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/08/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/08/2002
Action: Monitoring Report - Quarterly

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/11/2005
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/11/2005
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 04/23/1997
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 11/21/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/27/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/26/2002
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 08/28/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 11/21/2012
Action: Technical Correspondence / Assistance / Other

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 05/13/2013
Action: Staff Letter

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/03/2003
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/21/2000
Action: Monitoring Report - Quarterly

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 07/11/2001
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/14/1989
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/05/2007
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 01/30/2006
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/19/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/25/2001
Action: Other Report / Document

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 08/23/2012
Action: Site Visit / Inspection / Sampling

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 10/19/2012
Action: Staff Letter

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 02/05/2013
Action: Meeting

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/21/2002
Action: Well Installation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 07/26/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/29/2001
Action: Interim Remedial Action Report

FRANK'S EXXON #3 (Continued) **S101302569**

Global Id: T0607700558
Action Type: RESPONSE
Date: 03/28/1995
Action: Preliminary Site Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/20/2003
Action: Soil and Water Investigation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 02/22/2002
Action: Well Installation Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/09/2002
Action: Monitoring Report - Other

Global Id: T0607700558
Action Type: RESPONSE
Date: 10/08/1999
Action: Site Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 09/19/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 06/16/2000
Action: Preliminary Site Assessment Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/15/2000
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/29/2001
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: ENFORCEMENT
Date: 12/19/2013
Action: Meeting

Global Id: T0607700558
Action Type: RESPONSE
Date: 05/23/2002
Action: Interim Remedial Action Report

Global Id: T0607700558
Action Type: RESPONSE

FRANK'S EXXON #3 (Continued) **S101302569**

Date: 07/21/2005
Action: Other Report / Document

Global Id: T0607700558
Action Type: RESPONSE
Date: 12/30/1999
Action: Other Report / Document

LUST:
Global Id: T0607700558
Status: Open - Case Begin Date
Status Date: 05/19/1992

Global Id: T0607700558
Status: Open - Site Assessment
Status Date: 05/20/1992

Global Id: T0607700558
Status: Open - Remediation
Status Date: 10/02/2000

Global Id: T0607700558
Status: Open - Verification Monitoring
Status Date: 01/01/2004

Global Id: T0607700558
Status: Open - Remediation
Status Date: 10/18/2012

Global Id: T0607700558
Status: Open - Verification Monitoring
Status Date: 10/29/2012

LUST REG 5:
Name: FRANK'S ONE STOP
Address: 2072 YOSEMITE AVE W
City: MANTECA
Region: 5
Status: Leak being confirmed
Case Number: 390720
Case Type: Drinking water wells have been affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Regional
Program: LUST
MTBE Code: 5

CORTESE:
Name: FRANK'S ONE STOP
Address: 2072 YOSEMITE AVE W
City,State,Zip: MANTECA, CA
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700558
Site/Facility Type: LUST CLEANUP SITE

FRANK'S EXXON #3 (Continued) **S101302569**

Cleanup Status:	OPEN - VERIFICATION MONITORING
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 #3
edr_fadd1:	2072 YOSEMITE
City,State,Zip:	MANTECA, CA 95336
Region:	CORTESE
Facility County Code:	39
Reg By:	LTNKA
Reg Id:	390720

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37 **GORDON RESEARCH COMPANY** **RESPONSE** **S108936081**
SSE **1085 SOUTH UNION ROAD** **ENVIROSTOR** **N/A**
1/2-1 **MANTECA, CA 95336** **LIENS**
0.717 mi. **CERS**
3788 ft.

Relative:
Higher

Actual:
42 ft.

RESPONSE:

Name:	GORDON RESEARCH COMPANY
Address:	1085 SOUTH UNION ROAD
City,State,Zip:	MANTECA, CA 95336
Facility ID:	60000746
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	3.67
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP, SAN JOAQUIN COUNTY
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mckinley Lewis Jr.
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Site Code:	101924
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	12
Senate:	05
Special Program Status:	Not reported
Status:	Certified
Status Date:	02/22/2019
Restricted Use:	NO
Funding:	Not reported
Latitude:	37.78831

GORDON RESEARCH COMPANY (Continued) **S108936081**

Longitude:	-121.2355
APN:	222-240-12, 22224012
Past Use:	BATTERY RECLAMATION, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, EQUIPMENT/INSTRUMENT REPAIR, INCINERATOR - OTHER, MANUFACTURING - CHEMICALS, RESEARCH - CHEMICAL
Potential COC :	Under Investigation
Confirmed COC:	31001-NO
Potential Description:	CSS, SOIL
Alias Name:	222-240-12
Alias Type:	APN
Alias Name:	22224012
Alias Type:	APN
Alias Name:	110033620641
Alias Type:	EPA (FRS #)
Alias Name:	101924
Alias Type:	Project Code (Site Code)
Alias Name:	60000746
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Demand
Completed Date:	02/27/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/07/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	09/30/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Notice
Completed Date:	09/13/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/28/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	02/03/2012
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 11/09/2011
Comments: Task complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 02/18/2013
Comments: Notice of Intent to Place Lien was sent out 2/15/2013 via certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 11/28/2007
Comments: On this date DTSC mailed the I&SE Order which requires fencing and posting of the site, development of a chemical identification and disposal plan, and a post removal characterization. The effe ctive date of the order is (50 Days after todays date as it is on this date that DTSC mailed out the Order. n The first requirement to be met will be that ten day from today the respondent will have to submit a letter of intent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 05/07/2009
Comments: Access signed by Mr. Jim Gordon and received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/16/2009
Comments: PARC Specialties (PARC), under Emergency Response Expenditure Report # 2009-03-06, was authorized to proceed with the transportation and disposal of the compressed gas cylinders, located at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 02/22/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/21/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Document Type: Preliminary Assessment Work Plan
Completed Date: 07/13/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 03/10/2010
Comments: Response letter to Mr.. Gordon's original letter to DTSC and Governor. The response letter came from Stew Black.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 06/21/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/21/2010
Comments: Work Notice has been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/23/2011
Comments: Fence repair completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/21/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 08/15/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Other Report
Completed Date: 08/09/2013
Comments: Reference documents

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 07/06/2009

GORDON RESEARCH COMPANY (Continued) **S108936081**

Comments:	Completed and mailed on 7/6/2009 by certified mail.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date:	02/11/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	State/Federal Funded Site Work Order
Completed Date:	04/01/2011
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/11/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	08/06/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Form 1479 - Site and Collections Summary
Completed Date:	03/12/2014
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Litigation Support
Completed Date:	03/04/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/21/2015
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	03/11/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Letter - Notice
Completed Date:	07/10/2013
Comments:	Not reported
Completed Area Name:	PROJECT WIDE

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 08/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 05/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 05/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 06/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 07/31/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/21/2019
Comments: Site has been certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Settlement - Administrative
Completed Date: 05/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting
Completed Date: 05/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/20/2017

GORDON RESEARCH COMPANY (Continued) **S108936081**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	05/16/2016
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
Name:	NUR-AL-HUDA ACADEMY
Address:	1085 SOUTH UNION ROAD
City,State,Zip:	MANTECA, CA 95337
Facility ID:	60002130
Site Type:	State Response
Site Type Detail:	State Response or NPL
Acres:	3.67
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Mckinley Lewis Jr.
Supervisor:	William Beckman
Division Branch:	Cleanup Sacramento
Site Code:	102257
Site Mgmt. Req.:	NONE SPECIFIED
Assembly:	12
Senate:	05
Special Program Status:	Prospective Purchaser Program
Status:	Certified
Status Date:	02/22/2019
Restricted Use:	NO
Funding:	Responsible Party
Latitude:	37.78843
Longitude:	-121.2360
APN:	222-240-120-000
Past Use:	ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, DISTRIBUTOR - CHEMICAL, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RESEARCH - CHEMICAL
Potential COC :	Arsenic Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-MOTOR OIL Cadmium and compounds Benzo[a]pyrene
Confirmed COC:	Arsenic Dioxin (as 2,3,7,8-TCDD TEQ Lead TPH-diesel Cadmium and compounds TPH-MOTOR OIL Benzo[a]pyrene Polychlorinated biphenyls (PCBs Not reported
Potential Description:	SOIL
Alias Name:	Gordon Research
Alias Type:	Alternate Name
Alias Name:	Nur Al Huda
Alias Type:	Alternate Name

GORDON RESEARCH COMPANY (Continued) **S108936081**

Alias Name: Nur Al-Huda
Alias Type: Alternate Name
Alias Name: Nur-Al Huda
Alias Type: Alternate Name
Alias Name: 222-240-120-000
Alias Type: APN
Alias Name: 102257
Alias Type: Project Code (Site Code)
Alias Name: 60000746
Alias Type: Envirostor ID Number
Alias Name: 60002130
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/19/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/15/2017
Comments: Verbal approval given. There will not be a written letter given.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/13/2018
Comments: Final fieldwork activities were completed on December 13, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/15/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 04/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/05/2017
Comments: Notice was approved for released. No approval letter from DTSC issued. Approval was done so verbally.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 04/18/2018
Comments: No9tice has been approved.

Completed Area Name: PROJECT WIDE

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan Amendment
Completed Date: 09/24/2018
Comments: Addendum for additional soil removal was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/19/2018
Comments: 2nd Public Notice completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/21/2019
Comments: Letters to Bank of Stockton releasing funds to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/29/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/25/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/18/2018
Comments: 2018-2019 Annual Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/17/2018
Comments: FY18-19 Cost Estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach
Completed Date: 01/02/2018
Comments: Letter/memo was submitted to Tribes January 2, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach
Completed Date: 11/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/12/2019

GORDON RESEARCH COMPANY (Continued) **S108936081**

Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 04/26/2018
Comments: This is the signed and registered NOE.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/07/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 05/11/2017
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

ENVIROSTOR:
Name: NUR-AL-HUDA ACADEMY
Address: 1085 SOUTH UNION ROAD
City,State,Zip: MANTECA, CA 95337
Facility ID: 60002130
Status: Certified
Status Date: 02/22/2019
Site Code: 102257
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 3.67
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Mckinley Lewis Jr.
Supervisor: William Beckman
Division Branch: Cleanup Sacramento
Assembly: 12
Senate: 05
Special Program: Prospective Purchaser Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 37.78843
Longitude: -121.2360
APN: 222-240-120-000
Past Use: ABOVE GROUND STORAGE TANKS, AGRICULTURAL - ORCHARD, DISTRIBUTOR -

GORDON RESEARCH COMPANY (Continued) **S108936081**

CHEMICAL, EQUIPMENT/INSTRUMENT REPAIR, FUEL - VEHICLE STORAGE/ REFUELING, HAZARDOUS WASTE STORAGE - TANKS/CONTAINERS, RESEARCH - CHEMICAL

Potential COC: Arsenic Dioxin (as 2,3,7,8-TCDD TEQ Lead Polychlorinated biphenyls (PCBs TPH-diesel TPH-MOTOR OIL Cadmium and compounds Benzo[a]pyrene

Confirmed COC: Arsenic Dioxin (as 2,3,7,8-TCDD TEQ Lead TPH-diesel Cadmium and compounds TPH-MOTOR OIL Benzo[a]pyrene Polychlorinated biphenyls (PCBs Not reported

Potential Description: SOIL

Alias Name: Gordon Research
Alias Type: Alternate Name
Alias Name: Nur Al Huda
Alias Type: Alternate Name
Alias Name: Nur Al-Huda
Alias Type: Alternate Name
Alias Name: Nur-Al Huda
Alias Type: Alternate Name
Alias Name: 222-240-120-000
Alias Type: APN
Alias Name: 102257
Alias Type: Project Code (Site Code)
Alias Name: 60000746
Alias Type: Envirostor ID Number
Alias Name: 60002130
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 04/19/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/15/2017
Comments: Verbal approval given. There will not be a written letter given.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 12/13/2018
Comments: Final fieldwork activities were completed on December 13, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Completion Report
Completed Date: 02/15/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Financial Assurance Documentation
Completed Date: 04/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/05/2017
Comments: Notice was approved for released. No approval letter from DTSC issued. Approval was done so verbally.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Work Notice
Completed Date: 04/18/2018
Comments: No9tice has been approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Remedial Action Plan Amendment
Completed Date: 09/24/2018
Comments: Addendum for additional soil removal was approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 10/19/2018
Comments: 2nd Public Notice completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/21/2019
Comments: Letters to Bank of Stockton releasing funds to RP.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 07/29/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/25/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/18/2018
Comments: 2018-2019 Annual Cost Estimate

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Pre-HARP Form
Completed Date: 10/17/2018
Comments: FY18-19 Cost Estimate.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Date: 01/02/2018
Comments: Letter/memo was submitted to Tribes January 2, 2018.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Request for Tribal Outreach
Completed Date: 11/12/2018
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/12/2019
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 04/26/2018
Comments: This is the signed and registered NOE.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 11/07/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 05/11/2017
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

Name: GORDON RESEARCH COMPANY
Address: 1085 SOUTH UNION ROAD
City,State,Zip: MANTECA, CA 95336
Facility ID: 60000746
Status: Certified
Status Date: 02/22/2019
Site Code: 101924
Site Type: State Response
Site Type Detailed: State Response or NPL
Acres: 3.67
NPL: NO
Regulatory Agencies: SMBRP, SAN JOAQUIN COUNTY
Lead Agency: SMBRP
Program Manager: Mckinley Lewis Jr.

GORDON RESEARCH COMPANY (Continued) **S108936081**

Supervisor: William Beckman
Division Branch: Cleanup Sacramento
Assembly: 12
Senate: 05
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Not reported
Latitude: 37.78831
Longitude: -121.2355
APN: 222-240-12, 22224012
Past Use: BATTERY RECLAMATION, BATTERY STORAGE, DEGREASING FACILITY, DISTRIBUTOR - CHEMICAL, EQUIPMENT/INSTRUMENT REPAIR, INCINERATOR - OTHER, MANUFACTURING - CHEMICALS, RESEARCH - CHEMICAL
Potential COC: Under Investigation
Confirmed COC: 31001-NO
Potential Description: CSS, SOIL
Alias Name: 222-240-12
Alias Type: APN
Alias Name: 22224012
Alias Type: APN
Alias Name: 110033620641
Alias Type: EPA (FRS #)
Alias Name: 101924
Alias Type: Project Code (Site Code)
Alias Name: 60000746
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Demand
Completed Date: 02/27/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/07/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 09/30/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 09/13/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/28/2013
Comments: Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/03/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 11/09/2011
Comments: Task complete.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 02/18/2013
Comments: Notice of Intent to Place Lien was sent out 2/15/2013 via certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Imminent and/or Substantial Endangerment Order
Completed Date: 11/28/2007
Comments: On this date DTSC mailed the I&SE Order which requires fencing and posting of the site, development of a chemical identification and disposal plan, and a post removal characterization. The effe ctive date of the order is (50 Days after todays date as it is on this date that DTSC mailed out the Order. n The first requirement to be met will be that ten day from today the respondent will have to submit a letter of intent.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Access Agreement
Completed Date: 05/07/2009
Comments: Access signed by Mr. Jim Gordon and received.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 03/16/2009
Comments: PARC Specialties (PARC), under Emergency Response Expenditure Report # 2009-03-06, was authorized to proceed with the transportation and disposal of the compressed gas cylinders, located at the Site.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 02/22/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Technical Workplan
Completed Date: 05/21/2008
Comments: Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 09/02/2008
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Assessment Work Plan
Completed Date: 07/13/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: *Correspondence - Received
Completed Date: 03/10/2010
Comments: Response letter to Mr.. Gordon's original letter to DTSC and Governor. The response letter came from Stew Black.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Health & Safety Plan
Completed Date: 06/21/2010
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Public Notice
Completed Date: 06/21/2010
Comments: Work Notice has been completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 10/05/2012
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 06/23/2011
Comments: Fence repair completed.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 04/21/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 08/15/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Document Type: Other Report
Completed Date: 08/09/2013
Comments: Reference documents

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 07/06/2009
Comments: Completed and mailed on 7/6/2009 by certified mail.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Contract Fiscal Approval (CFA)
Completed Date: 02/11/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: State/Federal Funded Site Work Order
Completed Date: 04/01/2011
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/11/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 08/06/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Form 1479 - Site and Collections Summary
Completed Date: 03/12/2014
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Litigation Support
Completed Date: 03/04/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/21/2015
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 03/11/2013
Comments: Not reported

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 07/10/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Lien
Completed Date: 08/14/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 05/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Letter - Notice
Completed Date: 05/28/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 06/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 06/03/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Final Determination of Non-Compliance
Completed Date: 07/31/2013
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Certification
Completed Date: 02/21/2019
Comments: Site has been certified.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Settlement - Administrative
Completed Date: 05/11/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Triage Meeting

GORDON RESEARCH COMPANY (Continued) **S108936081**

Completed Date: 05/04/2016
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 01/20/2017
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 05/16/2016
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

LIENS:
Name: GORDON RESEARCH COMPANY
City,State,Zip: MANTECA, CA 95336
Envirostor Id: 60000746
Latitude: 37.788310
Longitude: -121.23550
Project Mgr: MCKINLEY LEWIS JR.
Project Code: 101924
If Satisfied: NO
Date Satisfied: Not reported
Site Status: CERTIFIED
Site Type: STATE RESPONSE OR NPL
Completed: 08/14/2013
Lien Amount: $367,920.96
Amount Remaining: Not reported
APNS: 222-240-12, 22224012
Description: This Site is located within a residential district of Manteca. The southwestern corner of the property abuts the northwestern corner of the Brock Elliot Elementary School. In October of 2007, San Joaquin County Environmental Health Department conducted an inspection which revealed wastes accumulated and potentially being deposited into the soil at the Site. Reportedly, trespassers are scavenging for recyclable or salable materials, or squatting on the Site. A deceased owner of the property operated numerous commercial ventures at the Site and maintained a residence at the property. The county requested DTSC oversight of the removal and disposal of the improperly stored chemicals at the site. A review of the available DTSC file revealed that prior to 1988, a chemical formulation, repackaging and resale businesses operated at the Site. The businesses were known as Gordon Research Company and U.S. Gordon Subproperty. These businesses purchased bulk chemicals and stored them at the site. In 1984, in response to a complaint received by the State of California

GORDON RESEARCH COMPANY (Continued) **S108936081**

Department of Health Services (DHS), a predecessor to DTSC, conducted an inspection at the site. The inspection revealed activities for which the operator did not hold the required permits. By December 1985, DHS inspections found that most of the chemicals were removed from the Site. From 1984 through 1986 the San Joaquin District Attorney's Office in conjunction with DHS conducted enforcement actions which resulted in chemicals being removed from the property. In 1986; the San Joaquin County Superior Court issued a permanent injunction which prohibited Larry Gordon, dba Gordon Research Company, dba U.S. Gordon Subproperty from handling treating, storing, or disposing of hazardous substances/wastes. In 1988, the site was inspected by DHS staff, the Manteca Fire Department, and the county District Attorney's office. At the time of the inspection, a portion of the property was surrounded by a fence. Within the fenced area 10-20 drums were noted. These drums contained products used by the property owner in maintaining equipment used in the commercial/agricultural operations. The October 2007 inspection revealed, among other things, unlabeled containers and high-pressure cylinders. Open containers with handwritten notations were observed. All of the containers have been exposed to the elements some of them have deteriorated and are leaking. Containers are stored in the open and accessible to trespassers. There are between ten (10) and twenty (20) compressed gas cylinders which are not labeled nor stored in a manner consistent with proper industrial standards. There is at least one large battery at the site. On November 28, 2007 DTSC issued an Imminent & Substantial Determination and Order which specifies the assessment and remedies necessary to address the conditions at the site. In response to the determination and order, representatives of the property owner has installed and regularly maintains the fence that surrounds the site, submitted a draft public participation plan, and a draft chemical identification and disposal plan. Between 2008 and 2011, DTSC completed the removal of contamination from the site began by the responsible party and conducted a Preliminary Endangerment Assessment (PEA) where two rounds of soil and groundwater sampling was done. From the sampling results, it was found that several hotspots exist on the site that will require remediation. The type of remediation recommended in the PEA report is soil removal. In addition, DTSC has initiated cost recovery actions by placing a lien against the property. In May 2017, DTSC settled with a prospective purchaser, the Nur-Al Huda Academy, for past costs and cleanup of the property for redevelopment. See the Nur-Al Huda project for recent information.

CERS:

Name:	NUR-AL-HUDA ACADEMY
Address:	1085 SOUTH UNION ROAD
City,State,Zip:	MANTECA, CA 95337
Site ID:	340790
CERS ID:	60002130
CERS Description:	State Response

Affiliation:

Affiliation Type Desc:	Lead Project Manager
Entity Name:	MCKINLEY LEWIS JR.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	SACRAMENTO

GORDON RESEARCH COMPANY (Continued) **S108936081**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Supervisor
Entity Name:	WILLIAM BECKMAN
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

I38 **QUICK STOP #121** **LUST** **S104403603**
NNE **1196 LOUISE AVE W** **Cortese** **N/A**
1/2-1 **MANTECA, CA 95336** **HIST CORTESE**
0.837 mi. **Notify 65**
4422 ft. **Site 1 of 2 in cluster I** **CERS**

Relative: Higher
Actual: 32 ft.

LUST:

Name:	QUICK STOP #121
Address:	1196 LOUISE 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=T0607700831
Global Id:	T0607700831
Latitude:	37.811868
Longitude:	-121.2352283
Status:	Completed - Case Closed
Status Date:	03/12/2007
Case Worker:	Not reported
RB Case Number:	391011
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	1430
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607700831
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:	T0607700831
Action Type:	Other
Date:	04/03/1998
Action:	Leak Reported

QUICK STOP #121 (Continued) **S104403603**

Global Id: T0607700831
Action Type: ENFORCEMENT
Date: 06/02/1998
Action: Notice of Responsibility

Global Id: T0607700831
Action Type: REMEDIATION
Date: 02/15/2001
Action: In Situ Physical/Chemical Treatment (other than SVE)

Global Id: T0607700831
Action Type: Other
Date: 04/03/1998
Action: Leak Discovery

Global Id: T0607700831
Action Type: Other
Date: 03/26/1998
Action: Leak Stopped

Global Id: T0607700831
Action Type: REMEDIATION
Date: 08/02/2002
Action: Other (Use Description Field)

Global Id: T0607700831
Action Type: ENFORCEMENT
Date: 04/03/1998
Action: Notification - Proposition 65

LUST:
Global Id: T0607700831
Status: Open - Case Begin Date
Status Date: 03/26/1998

Global Id: T0607700831
Status: Open - Site Assessment
Status Date: 04/03/1998

Global Id: T0607700831
Status: Open - Site Assessment
Status Date: 01/20/2000

Global Id: T0607700831
Status: Open - Remediation
Status Date: 02/15/2001

Global Id: T0607700831
Status: Open - Remediation
Status Date: 08/02/2002

Global Id: T0607700831
Status: Open - Verification Monitoring
Status Date: 05/03/2005

Global Id: T0607700831
Status: Completed - Case Closed

QUICK STOP #121 (Continued) **S104403603**

Status Date: 03/12/2007

LUST REG 5:
Name: QUICK STOP #121
Address: 1196 LOUISE AVE W
City: MANTECA
Region: 5
Status: Case Closed
Case Number: 391011
Case Type: Drinking Water Aquifer affected
Substance: GASOLINE
Staff Initials: JLB
Lead Agency: Local
Program: LUST
MTBE Code: 9

CORTESE:
Name: QUICK STOP #121
Address: 1196 LOUISE AVE W
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607700831
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: QUICK STOP #121
edr_fadd1: 1196 LOUISE
City,State,Zip: MANTECA, CA 95336
Region: CORTESE
Facility County Code: 39
Reg By: LTNKA
Reg Id: 391011

NOTIFY 65:
Name: QUICK STOP #121
Address: 1196 LOUISE AVE W

QUICK STOP #121 (Continued) **S104403603**

City,State,Zip: MANTECA, CA 95336
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: 04/03/1998
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

Name: QUICK STOP #121
Address: 1196 LOUISE AVE W
City,State,Zip: MANTECA, CA 95336
Date Reported: Not reported
Staff Initials: Not reported
Board File Number: Not reported
Facility Type: Not reported
Discharge Date: Not reported
Issue Date: Not reported
Incident Description: Not reported
Global ID: Not reported
Status: Not reported

CERS:
Name: QUICK STOP #121
Address: 1196 LOUISE AVE W
City,State,Zip: MANTECA, CA 95336
Site ID: 253273
CERS ID: T0607700831
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

I39 **MCPARLAND ANNEX** **ENVIROSTOR** **S105628942**
NNE **LOUISE AVENUE/UNION ROAD** **SCH** **N/A**
1/2-1 **STOCKTON, CA 95336** **CERS**
0.865 mi.
4565 ft. **Site 2 of 2 in cluster I**

Relative:
Higher

Actual:
32 ft.

ENVIROSTOR:
Name: MCPARLAND ANNEX
Address: LOUISE AVENUE/UNION ROAD
City,State,Zip: STOCKTON, CA 95336
Facility ID: 39010024
Status: No Further Action
Status Date: 02/26/2001
Site Code: 104128

MCPARLAND ANNEX (Continued) **S105628942**

Site Type: School Investigation
Site Type Detailed: School
Acres: 4.47
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Not reported
Supervisor: Charles Ridenour
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: 37.81205
Longitude: -121.2342
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ORCHARD
Potential COC: Cobalt Selenium Antimony and compounds Vanadium and compounds Arsenic Paraquat Copper and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: MANTECA USD-MCPARLAND ANNEX/VCA
Alias Type: Alternate Name
Alias Name: MCPARLAND ANNEX
Alias Type: Alternate Name
Alias Name: 104128
Alias Type: Project Code (Site Code)
Alias Name: 39010024
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: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/13/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 03/15/2001
Comments: DTSC sent a CRU to the accounting unit to summarize costs associated with the Volunatary Cleanup Agreement

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

MCPARLAND ANNEX (Continued) **S105628942**

Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: MCPARLAND ANNEX
Address: LOUISE AVENUE/UNION ROAD
City,State,Zip: STOCKTON, CA 95336
Facility ID: 39010024
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 4.47
National Priorities List: NO
Cleanup Oversight Agencies: DTSC
Lead Agency: DTSC
Lead Agency Description: * DTSC
Project Manager: Not reported
Supervisor: Charles Ridenour
Division Branch: Northern California Schools & Santa Susana
Site Code: 104128
Assembly: 12
Senate: 05
Special Program Status: Not reported
Status: No Further Action
Status Date: 02/26/2001
Restricted Use: NO
Funding: School District
Latitude: 37.81205
Longitude: -121.2342
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ORCHARD
Potential COC: Cobalt, Cobalt, Selenium, Antimony and compounds, Vanadium and compounds, Arsenic, Paraquat, Copper and compounds
Confirmed COC: NONE SPECIFIED
Potential Description: SOIL
Alias Name: MANTECA USD-MCPARLAND ANNEX/VCA
Alias Type: Alternate Name
Alias Name: MCPARLAND ANNEX
Alias Type: Alternate Name
Alias Name: 104128
Alias Type: Project Code (Site Code)
Alias Name: 39010024
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: 02/26/2001
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 06/13/2000

MCPARLAND ANNEX (Continued) **S105628942**

Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	03/15/2001
Comments:	DTSC sent a CRU to the accounting unit to summarize costs associated with the Volunatary Cleanup Agreement
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:	MCPARLAND ANNEX
Address:	LOUISE AVENUE/UNION ROAD
City,State,Zip:	STOCKTON, CA 95336
Site ID:	339912
CERS ID:	39010024
CERS Description:	School Investigation

Affiliation:

Affiliation Type Desc:	Supervisor
Entity Name:	Charles Ridenour
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

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MANTECA	S124745494	CONTEL MANTECA CO	430 CENTER ST	95336	HWTS
MANTECA	S121664947	PMZ REAL ESTATE MANTECA	SEC YOSEMITE AVE & FISHBACK RD	95336	CIWQS
MANTECA	S121653527	MANTECA DOWNTOWN STREETSCAPE	YOSEMITE AVE & MAPLE AVE & MAI	95337	CIWQS
MANTECA	S100186163	SPRECKELS SUGAR COMPANY, INC.	YOSEMITE AVE	95336	ENVIROSTOR

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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/25/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/10/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
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: 05/17/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/23/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/14/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 61

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST: 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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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 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 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

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Semi-Annually

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: 05/20/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/30/2021
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)

Military ust sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

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: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
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: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/17/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/01/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
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: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/13/2021
Number of Days to Update: 88

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
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: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
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: 08/17/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
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: 04/23/2021
Date Data Arrived at EDR: 04/23/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 80

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/08/2021
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: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
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: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/14/2021
Data Release Frequency: Varies

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

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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

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: 05/27/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 09/12/2021
Date Data Arrived at EDR: 09/13/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 15

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 01/03/2022
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: 04/04/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
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: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/06/2021
Next Scheduled EDR Contact: 11/22/2021
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: 09/13/2021
Date Data Arrived at EDR: 09/15/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
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: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
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: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
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: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/13/2021
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: 05/07/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 09/01/2021
Next Scheduled EDR Contact: 11/15/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
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: 09/27/2021
Next Scheduled EDR Contact: 01/10/2022
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: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
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: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
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: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/30/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
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: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/26/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/28/2021
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
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: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/21/2021
Next Scheduled EDR Contact: 01/03/2022
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: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

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: 05/18/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/05/2021
Number of Days to Update: 78

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
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: 05/25/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 78

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
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: 04/16/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/13/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 74

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Annually

ICE: ICE
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74
Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
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: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 74
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
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: 07/01/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 85
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 05/06/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/27/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/22/2021
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: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 06/04/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
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: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/27/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 06/07/2021
Date Data Arrived at EDR: 06/07/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 08/12/2021
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/07/2021
Number of Days to Update: 78
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/24/2021
Number of Days to Update: 82
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 06/03/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 08/25/2021
Number of Days to Update: 83

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 12/20/2021
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: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Varies

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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/22/2021
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 08/05/2021
Date Data Arrived at EDR: 08/06/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 42

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
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: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 07/02/2021
Number of Days to Update: 16

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
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: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
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: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 04/09/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 04/22/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/06/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 6

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/15/2021
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: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 09/07/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List

Cupa facility list

Date of Government Version: 05/10/2021
Date Data Arrived at EDR: 05/12/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 75

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 09/09/2021
Next Scheduled EDR Contact: 11/01/2021
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: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/08/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 09/30/2021
Next Scheduled EDR Contact: 01/17/2022
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/09/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
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: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
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: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/12/2021
Next Scheduled EDR Contact: 10/25/2021
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/28/2021
Number of Days to Update: 11

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
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: 04/19/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 09/14/2021
Number of Days to Update: 89
Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/24/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/26/2021
Date Data Arrived at EDR: 07/09/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 82
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/09/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 02/02/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76
Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
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: 03/24/2021
Date Data Arrived at EDR: 04/07/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/13/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 07/26/2021
Number of Days to Update: 73

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 08/09/2021
Next Scheduled EDR Contact: 11/28/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/23/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 1

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
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: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
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: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 07/15/2021
Number of Days to Update: 77

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/29/2021
Date Data Arrived at EDR: 04/30/2021
Date Made Active in Reports: 07/19/2021
Number of Days to Update: 80

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/15/2021
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: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6
Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 14
Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/28/2021
Next Scheduled EDR Contact: 01/10/2022
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: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 85
Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/15/2021
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: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
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: 05/28/2021
Date Data Arrived at EDR: 05/28/2021
Date Made Active in Reports: 08/20/2021
Number of Days to Update: 84

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 07/27/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing
Cupa facilities

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77
Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
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: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
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: 05/06/2021
Date Data Arrived at EDR: 05/07/2021
Date Made Active in Reports: 07/23/2021
Number of Days to Update: 77
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
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: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 09/10/2021
Next Scheduled EDR Contact: 12/20/2021
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: 08/31/2021
Next Scheduled EDR Contact: 12/20/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/04/2021
Next Scheduled EDR Contact: 11/29/2021
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: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
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: 07/27/2021
Next Scheduled EDR Contact: 11/15/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 08/10/2021
Next Scheduled EDR Contact: 11/29/2021
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: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 06/22/2021
Date Data Arrived at EDR: 06/23/2021
Date Made Active in Reports: 09/17/2021
Number of Days to Update: 86

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
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: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 05/14/2021
Date Data Arrived at EDR: 05/17/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 78

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/06/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 08/18/2021
Number of Days to Update: 84

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/14/2021
Date Data Arrived at EDR: 04/15/2021
Date Made Active in Reports: 07/06/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 04/26/2021
Date Data Arrived at EDR: 04/28/2021
Date Made Active in Reports: 07/13/2021
Number of Days to Update: 76

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 11/15/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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: 03/29/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 07/12/2021
Number of Days to Update: 81

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
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: 08/04/2021
Next Scheduled EDR Contact: 11/22/2021
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: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 11/01/2021
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: 05/26/2021
Date Data Arrived at EDR: 06/04/2021
Date Made Active in Reports: 08/27/2021
Number of Days to Update: 84
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/08/2021
Next Scheduled EDR Contact: 12/20/2021
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: 06/22/2021
Date Data Arrived at EDR: 06/28/2021
Date Made Active in Reports: 09/21/2021
Number of Days to Update: 85
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/23/2021
Next Scheduled EDR Contact: 01/10/2022
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20
Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78
Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
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: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
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: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
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: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

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

PROSE MANTECA
1563 WEST YOSEMITE AVENUE
MANTECA, CA 95337

TARGET PROPERTY COORDINATES

Latitude (North):	37.799266 - 37° 47' 57.36''
Longitude (West):	121.242323 - 121° 14' 32.36''
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	654749.0
UTM Y (Meters):	4184793.5
Elevation:	28 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5640398 MANTECA, CA
Version Date:	2012
West Map:	5640064 LATHROP, 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).

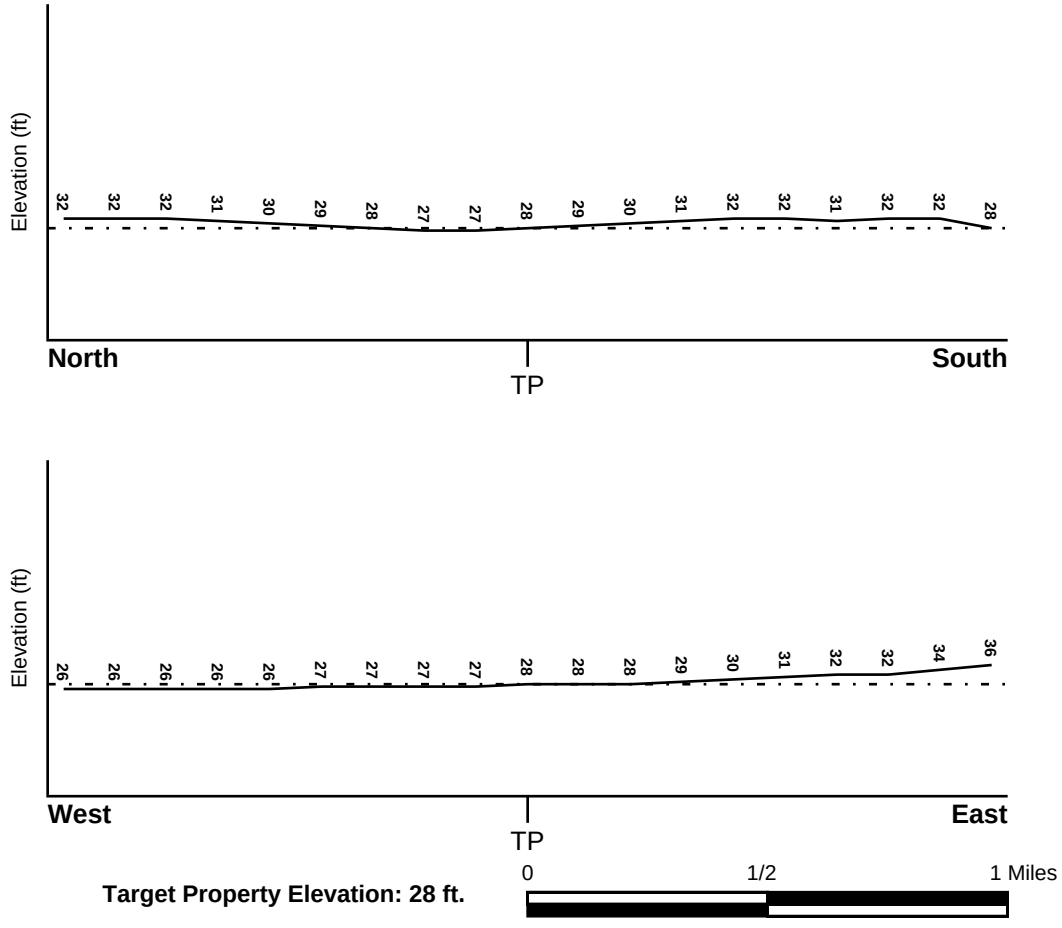
TOPOGRAPHIC INFORMATION

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 NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Target Property Elevation: 28 ft.

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
06077C0640F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06077C0630F	FEMA FIRM Flood data
06077C0620F	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

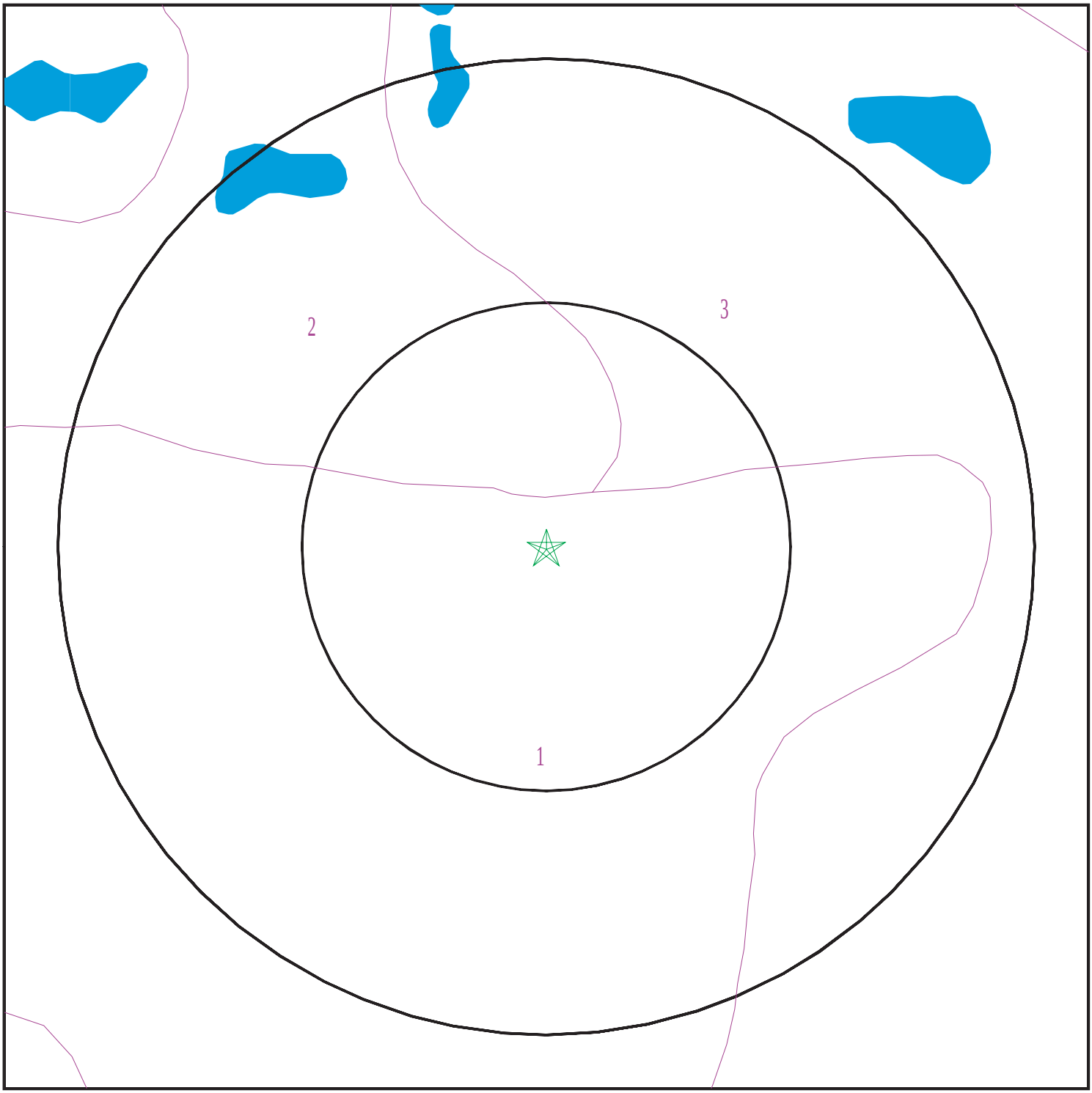
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

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 - 06686940.2r



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Prose Manteca	CLIENT:	Engeo Inc.
ADDRESS:	1563 West Yosemite Avenue Manteca CA 95337	CONTACT:	Jenna Keith
LAT/LONG:	37.799266 / 121.242323	INQUIRY #:	06686940.2r
		DATE:	October 01, 2021 3:29 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: 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

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 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 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 Min: 0	Max: Min:

Soil Map ID: 2

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 Min: 42	Max: 8.4 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 Min: 42	Max: 8.4 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 Min: 42	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

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 Min: 42	Max: 7.8 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 Min: 42	Max: 7.8 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 Min: 42	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
4	USGS40000185751	1/4 - 1/2 Mile North
M72	USGS40000185639	1/2 - 1 Mile SE
76	USGS40000185771	1/2 - 1 Mile NNW
77	USGS40000185710	1/2 - 1 Mile East
O91	USGS40000185778	1/2 - 1 Mile NNE
R94	USGS40000185787	1/2 - 1 Mile NNE
98	USGS40000185589	1/2 - 1 Mile SSE

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
A1	CAEDF0000079263	1/4 - 1/2 Mile ESE
A2	CAEDF0000006023	1/4 - 1/2 Mile ESE
A3	CAEDF0000021962	1/4 - 1/2 Mile ESE
B5	CAEDF0000123145	1/4 - 1/2 Mile WSW
B6	CAEDF0000105923	1/4 - 1/2 Mile WSW
B7	CAEDF0000035629	1/4 - 1/2 Mile West
B8	CAEDF0000012960	1/4 - 1/2 Mile West
B9	CAEDF0000043235	1/4 - 1/2 Mile West
B10	CAEDF0000043513	1/4 - 1/2 Mile West
11	CADWR9000037600	1/4 - 1/2 Mile WSW
B12	CAEDF0000131172	1/4 - 1/2 Mile West
B13	CAEDF0000079828	1/4 - 1/2 Mile West
B14	CAEDF0000035185	1/4 - 1/2 Mile West
C15	1054	1/4 - 1/2 Mile East
C16	23152	1/4 - 1/2 Mile East
D17	CAEDF0000003496	1/4 - 1/2 Mile ESE
D18	CAEDF0000114842	1/4 - 1/2 Mile ESE
D19	CAEDF0000045636	1/4 - 1/2 Mile ESE
D20	CAEDF0000091215	1/4 - 1/2 Mile ESE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
D21	CAEDF0000092941	1/4 - 1/2 Mile ESE
E22	19403	1/4 - 1/2 Mile SW
E23	23161	1/4 - 1/2 Mile SW
D24	CADWR9000037601	1/4 - 1/2 Mile ESE
C25	CADDW0000022208	1/4 - 1/2 Mile East
26	CADWR9000037633	1/2 - 1 Mile NE
F27	CAEDF0000127678	1/2 - 1 Mile WSW
F28	CAEDF0000085302	1/2 - 1 Mile WSW
F29	CAEDF0000079872	1/2 - 1 Mile WSW
F30	CAEDF0000104491	1/2 - 1 Mile WSW
F31	CADDW0000000524	1/2 - 1 Mile WSW
F32	CAEDF0000112859	1/2 - 1 Mile WSW
F33	CAEDF0000080053	1/2 - 1 Mile West
F34	CAEDF0000139044	1/2 - 1 Mile West
F35	CAEDF0000067686	1/2 - 1 Mile West
F36	CAEDF0000140872	1/2 - 1 Mile West
F37	CAEDF0000143429	1/2 - 1 Mile WSW
F38	CADWR9000037605	1/2 - 1 Mile WSW
G39	CAEDF0000023167	1/2 - 1 Mile West
G40	CAEDF0000099950	1/2 - 1 Mile West
G41	CAEDF0000125387	1/2 - 1 Mile West
G42	CAEDF0000022321	1/2 - 1 Mile West
G43	CAEDF0000138323	1/2 - 1 Mile West
44	CAEDF0000100608	1/2 - 1 Mile West
G45	CAEDF0000033149	1/2 - 1 Mile West
H46	CADWR0000014216	1/2 - 1 Mile ESE
I47	CAEDF0000014337	1/2 - 1 Mile West
I48	CAEDF0000001865	1/2 - 1 Mile West
I49	CAEDF0000108726	1/2 - 1 Mile West
I50	CAEDF0000065304	1/2 - 1 Mile West
J51	CAEDF0000093428	1/2 - 1 Mile West
J52	CAEDF0000043102	1/2 - 1 Mile West
J53	CAEDF0000008145	1/2 - 1 Mile West
I54	CAEDF0000100666	1/2 - 1 Mile West
I55	CAEDF0000132694	1/2 - 1 Mile West
I56	CAEDF0000101989	1/2 - 1 Mile West
K57	CAEDF0000053929	1/2 - 1 Mile ESE
H58	CAEDF0000086913	1/2 - 1 Mile ESE
H59	CAEDF0000099677	1/2 - 1 Mile ESE
H60	CAEDF0000047585	1/2 - 1 Mile ESE
H61	CAEDF0000135183	1/2 - 1 Mile ESE
62	CADDW0000011791	1/2 - 1 Mile South
K63	CAEDF0000006026	1/2 - 1 Mile ESE
K64	CAEDF0000143046	1/2 - 1 Mile ESE
K65	CAEDF0000095027	1/2 - 1 Mile ESE
L66	CADDW0000002245	1/2 - 1 Mile SSW
L67	CALLNL000001255	1/2 - 1 Mile SSW
L68	CADWR9000037588	1/2 - 1 Mile SSW
L69	CAEDF0000007586	1/2 - 1 Mile SSW
70	CALLNL000000523	1/2 - 1 Mile NE
M71	CALLNL000000710	1/2 - 1 Mile SE
M73	CADDW0000016730	1/2 - 1 Mile SE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

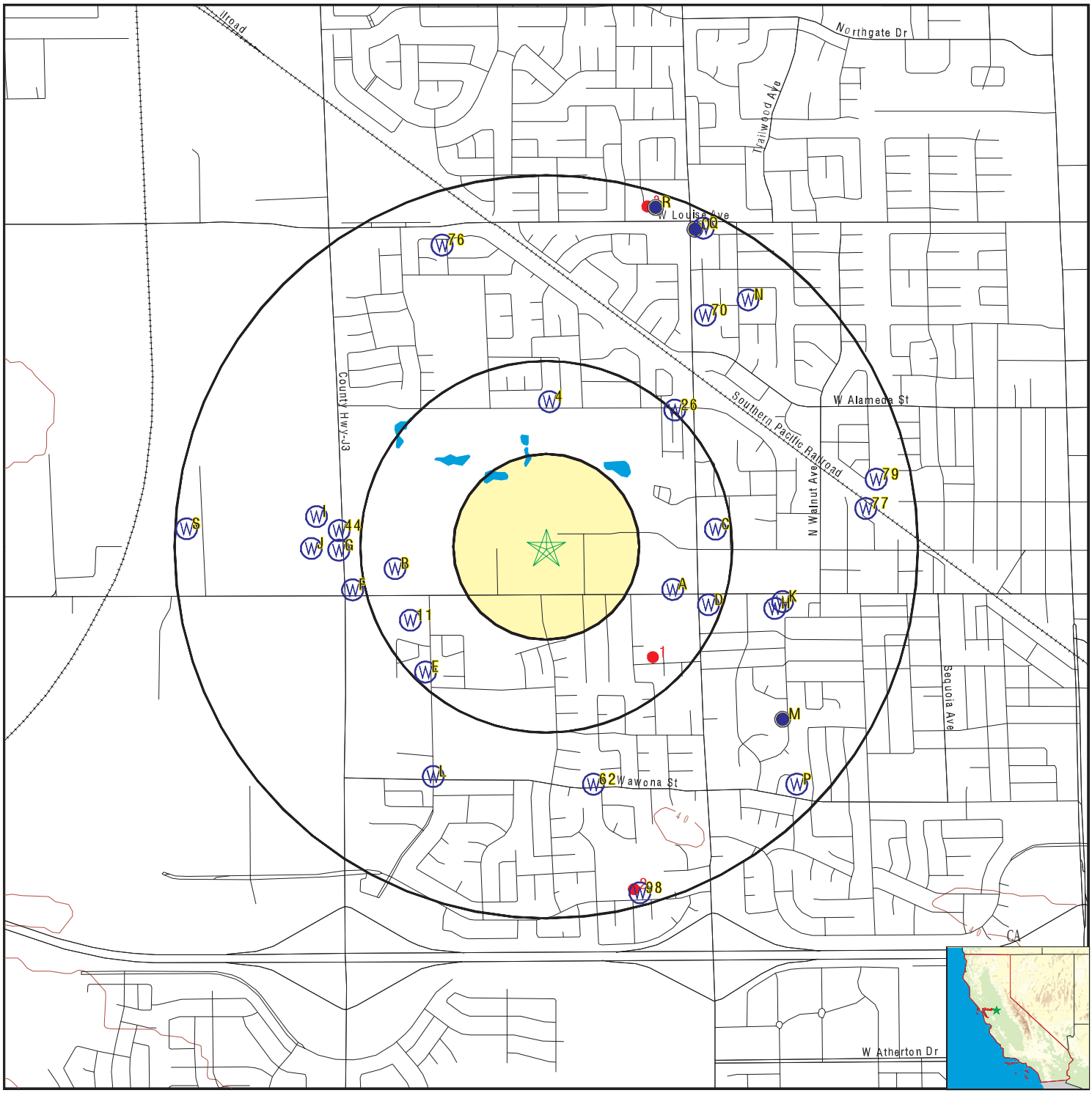
MAP ID	WELL ID	LOCATION FROM TP
N74	CADDW0000013123	1/2 - 1 Mile NE
N75	CALLNL000000436	1/2 - 1 Mile NE
N78	CADWR9000037641	1/2 - 1 Mile NE
79	CADDW0000009810	1/2 - 1 Mile ENE
O80	CADWR9000037649	1/2 - 1 Mile NNE
O81	CAEDF0000141857	1/2 - 1 Mile NNE
P82	CADDW0000001025	1/2 - 1 Mile SE
P83	CADDW0000014300	1/2 - 1 Mile SE
O84	CAEDF0000115833	1/2 - 1 Mile NNE
O85	CAEDF0000127142	1/2 - 1 Mile NNE
O86	CAEDF0000089306	1/2 - 1 Mile NNE
O87	CAEDF0000039208	1/2 - 1 Mile NNE
O88	CAEDF0000058613	1/2 - 1 Mile NNE
O89	CAEDF0000138478	1/2 - 1 Mile NNE
Q90	CAEDF0000064088	1/2 - 1 Mile NNE
O92	CAEDF0000113261	1/2 - 1 Mile NNE
O93	CAEDF0000062953	1/2 - 1 Mile NNE
O95	CAEDF0000042343	1/2 - 1 Mile NNE
Q96	CAEDF0000058697	1/2 - 1 Mile NNE
R97	CADWR9000037658	1/2 - 1 Mile NNE
S99	CAEDF0000084467	1/2 - 1 Mile West
S100	CAEDF0000048435	1/2 - 1 Mile West
S101	CAEDF0000003499	1/2 - 1 Mile West
S102	CADDW0000002135	1/2 - 1 Mile West
S103	CADDW0000008225	1/2 - 1 Mile West
S104	CADWR0000023052	1/2 - 1 Mile West
O105	CADWR9000037653	1/2 - 1 Mile NNE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	CAOG14000008278	1/4 - 1/2 Mile SE
2	CAOG14000008279	1/2 - 1 Mile SSE
3	CAOG14000008243	1/2 - 1 Mile NNE

PHYSICAL SETTING SOURCE MAP - 06686940.2r



- 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:	Prose Manteca	CLIENT:	Engeo Inc.
ADDRESS:	1563 West Yosemite Avenue Manteca CA 95337	CONTACT:	Jenna Keith
		INQUIRY #:	06686940.2r
LAT/LONG:	37.799266 / 121.242323	DATE:	October 01, 2021 3:29 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
A1 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000079263**
A2 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000006023**
A3 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000021962**
4 **North** **1/4 - 1/2 Mile** **Higher**	**FED USGS**	**USGS40000185751**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007E31G001M	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:	19720912	Well Depth:	150
Well Depth Units:	ft	Well Hole Depth:	150
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1972-09-12
Feet below surface:	12.00	Feet to sea level:	Not Reported
Note:	Not Reported		

B5 **WSW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000123145**
B6 **WSW** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000105923**
B7 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000035629**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
B8 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000012960**
B9 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000043235**
B10 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000043513**
11 **WSW** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR9000037600**

State Well #:	02S07E06C001M	Station ID:	6765
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Irrigation	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID Direction Distance Elevation	Database	EDR ID Number
B12 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000131172**
B13 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000079828**
B14 **West** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CAEDF0000035185**
C15 **East** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**1054**

Seq:	1054	Prim sta c:	01S/07E-32P01 M
Frds no:	3910005004	County:	39
District:	10	User id:	PTA
System no:	3910005	Water type:	G
Source nam:	WELL 04	Station ty:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Latitude:	374800.0	Longitude:	1211400.0
Precision:	8	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		

C16
East
1/4 - 1/2 Mile
Higher

CA WELLS **23152**

Seq:	23152	Prim sta c:	J39/005-04TRT
Frds no:	3910005020	County:	39
District:	10	User id:	PTA
System no:	3910005	Water type:	G
Source nam:	WELL 04 - TREATED	Station ty:	WELL/AMBNT/MUN
Latitude:	374800.0	Longitude:	1211400.0
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		

D17
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000003496**

D18
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000114842**

D19
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CAEDF0000045636**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
D20 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000091215**

	Database	EDR ID Number
D21 **ESE** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CAEDF0000092941**

	Database	EDR ID Number
E22 **SW** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**19403**

Seq:	19403	Prim sta c:	3910005-016
Frds no:	3910005016	County:	39
District:	10	User id:	PTA
System no:	3910005	Water type:	G
Source nam:	WELL 16	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	374740.0	Longitude:	1211450.0
Precision:	4	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		

Sample date:	27-FEB-18	Finding:	9.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	03-OCT-17	Finding:	2.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	15-MAR-17	Finding:	0.49
Chemical:	TOTAL ORGANIC CARBON (TOC)	Report units:	MG/L
Dlr:	0.3		

Sample date:	04-OCT-16	Finding:	2.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	12-MAY-15	Finding:	360.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		

Sample date:	12-MAY-15	Finding:	12.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		

Sample date:	12-MAY-15	Finding:	0.18
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	260.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	51.
Chemical:	ZINC	Report units:	UG/L
Dlr:	50.		
Sample date:	12-MAY-15	Finding:	110.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	12-MAY-15	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	12-MAY-15	Finding:	16.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		
Sample date:	12-MAY-15	Finding:	11.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	2.9
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	9.4
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	37.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	130.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	180.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	140.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	12-MAY-15	Finding:	8.
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	06-MAY-14	Finding:	22.7
Chemical:	NITRATE (AS NO3)	Report units:	MG/L

Dlr:	2.		
Sample date:	17-JUL-13	Finding:	3.86
Chemical:	GROSS ALPHA	Report units:	PCI/L
Dlr:	3.		
Sample date:	17-JUL-13	Finding:	0.311
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-JUL-13	Finding:	1.16
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	17-JUL-13	Finding:	3.4
Chemical:	URANIUM (PCI/L)	Report units:	PCI/L
Dlr:	1.		
Sample date:	08-MAY-12	Finding:	24.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	10.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	0.11
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)	Report units:	MG/L
Dlr:	0.1		
Sample date:	08-MAY-12	Finding:	9.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-MAY-12	Finding:	120.
Chemical:	BARIUM	Report units:	UG/L
Dlr:	100.		
Sample date:	08-MAY-12	Finding:	280.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	0.66
Chemical:	LANGELIER INDEX @ 60 C	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	13.
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	14.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	52.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	190.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		

Sample date:	08-MAY-12	Finding:	230.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	190.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	8.2
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	450.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	08-MAY-12	Finding:	19.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

E23
SW
1/4 - 1/2 Mile
Higher

CA WELLS **23161**

Seq:	23161	Prim sta c:	J39/005-16TRT
Frds no:	3910005027	County:	39
District:	10	User id:	PTA
System no:	3910005	Water type:	G
Source nam:	WELL 16 - TREATED	Station ty:	WELL/AMBNT/MUN
Latitude:	374740.0	Longitude:	1211450.0
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		
Sample date:	27-FEB-18	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-FEB-18	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-FEB-18	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-FEB-18	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-JAN-18	Finding:	3.9

Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JAN-18	Finding:	3.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JAN-18	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JAN-18	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JAN-18	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-DEC-17	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-DEC-17	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-DEC-17	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-DEC-17	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-NOV-17	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-NOV-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-NOV-17	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-NOV-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-OCT-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-OCT-17	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-OCT-17	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	10-OCT-17	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-OCT-17	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-SEP-17	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-SEP-17	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-SEP-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-SEP-17	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-AUG-17	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-AUG-17	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-AUG-17	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-AUG-17	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-AUG-17	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-17	Finding:	8.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUL-17	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-JUL-17	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-JUN-17	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	20-JUN-17	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-JUN-17	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JUN-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-MAY-17	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-MAY-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-MAY-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-MAY-17	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-MAY-17	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-APR-17	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-APR-17	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-APR-17	Finding:	4.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-APR-17	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-MAR-17	Finding:	3.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-MAR-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-MAR-17	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	07-MAR-17	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-FEB-17	Finding:	3.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-FEB-17	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-FEB-17	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-FEB-17	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	31-JAN-17	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-JAN-17	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-JAN-17	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-JAN-17	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JAN-17	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-DEC-16	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-DEC-16	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-DEC-16	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-DEC-16	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-NOV-16	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-NOV-16	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	15-NOV-16	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-NOV-16	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-NOV-16	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-OCT-16	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-OCT-16	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-OCT-16	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-OCT-16	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-SEP-16	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-SEP-16	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-SEP-16	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-SEP-16	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-AUG-16	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-AUG-16	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-AUG-16	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-AUG-16	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	01-AUG-16	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-AUG-16	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUL-16	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUL-16	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUL-16	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-JUN-16	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-JUN-16	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-JUN-16	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JUN-16	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-DEC-15	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-DEC-15	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-NOV-15	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-NOV-15	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-NOV-15	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-NOV-15	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-OCT-15	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	21-OCT-15	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-OCT-15	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-OCT-15	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-SEP-15	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-SEP-15	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-SEP-15	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-SEP-15	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-SEP-15	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-AUG-15	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-AUG-15	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-AUG-15	Finding:	7.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-AUG-15	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-JUL-15	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-JUL-15	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-JUL-15	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	07-JUL-15	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-JUN-15	Finding:	8.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-JUN-15	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-JUN-15	Finding:	7.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-JUN-15	Finding:	7.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JUN-15	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-MAY-15	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-MAY-15	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-MAY-15	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-MAY-15	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-APR-15	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-APR-15	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-APR-15	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-APR-15	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-MAR-15	Finding:	4.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-MAR-15	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	16-MAR-15	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-MAR-15	Finding:	4.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-MAR-15	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-FEB-15	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-FEB-15	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-FEB-15	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-FEB-15	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-JAN-15	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-JAN-15	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-JAN-15	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-JAN-15	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-DEC-14	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-DEC-14	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-DEC-14	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-DEC-14	Finding:	4.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	02-DEC-14	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-OCT-14	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-OCT-14	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-OCT-14	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-SEP-14	Finding:	3.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-SEP-14	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-SEP-14	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-SEP-14	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-SEP-14	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-AUG-14	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-AUG-14	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-AUG-14	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-AUG-14	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-JUL-14	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-JUL-14	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-JUL-14	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	07-JUL-14	Finding:	4.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-JUL-14	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-JUN-14	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JUN-14	Finding:	7.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JUN-14	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-JUN-14	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-MAY-14	Finding:	6.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-MAY-14	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-MAY-14	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAY-14	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-APR-14	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-APR-14	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-APR-14	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-APR-14	Finding:	5.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-APR-14	Finding:	4.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	24-MAR-14	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-MAR-14	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-JAN-14	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JAN-14	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-DEC-13	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-DEC-13	Finding:	4.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-DEC-13	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-DEC-13	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-DEC-13	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-NOV-13	Finding:	7.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-NOV-13	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-NOV-13	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-OCT-13	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	21-OCT-13	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-OCT-13	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-OCT-13	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	01-OCT-13	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-SEP-13	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-SEP-13	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-SEP-13	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-SEP-13	Finding:	6.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-AUG-13	Finding:	7.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-AUG-13	Finding:	5.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-AUG-13	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	05-AUG-13	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-JUL-13	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-JUL-13	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-JUL-13	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-JUL-13	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JUL-13	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-JUN-13	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	17-JUN-13	Finding:	5.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUN-13	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-MAY-13	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-MAY-13	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-MAY-13	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-MAY-13	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-APR-13	Finding:	6.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-APR-13	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-APR-13	Finding:	6.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-APR-13	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-APR-13	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-MAR-13	Finding:	6.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-MAR-13	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-MAR-13	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-MAR-13	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-FEB-13	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	19-FEB-13	Finding:	9.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-FEB-13	Finding:	5.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-FEB-13	Finding:	4.9
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	28-JAN-13	Finding:	5.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	22-JAN-13	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-JAN-13	Finding:	3.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	07-JAN-13	Finding:	4.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JAN-13	Finding:	4.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-DEC-12	Finding:	4.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-DEC-12	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-DEC-12	Finding:	6.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	03-DEC-12	Finding:	5.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	26-NOV-12	Finding:	6.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	19-NOV-12	Finding:	8.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-NOV-12	Finding:	7.2
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

Sample date:	06-NOV-12	Finding:	9.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	29-OCT-12	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	23-OCT-12	Finding:	7.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	15-OCT-12	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	12-OCT-12	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	08-OCT-12	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	01-OCT-12	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	24-SEP-12	Finding:	5.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	17-SEP-12	Finding:	6.7
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	10-SEP-12	Finding:	7.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-SEP-12	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	27-AUG-12	Finding:	5.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	20-AUG-12	Finding:	8.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	13-AUG-12	Finding:	7.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	06-AUG-12	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	30-JUL-12	Finding:	7.1
Chemical:	ARSENIC	Report units:	UG/L

Dlr:	2.		
Sample date:	23-JUL-12	Finding:	7.5
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	16-JUL-12	Finding:	6.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	09-JUL-12	Finding:	8.1
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	02-JUL-12	Finding:	5.8
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	25-JUN-12	Finding:	7.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	18-JUN-12	Finding:	6.4
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	11-JUN-12	Finding:	9.
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	04-JUN-12	Finding:	7.6
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		
Sample date:	14-MAY-12	Finding:	5.3
Chemical:	ARSENIC	Report units:	UG/L
Dlr:	2.		

D24
ESE
1/4 - 1/2 Mile
Higher

CA WELLS **CADWR9000037601**

State Well #:	02S07E05D001M	Station ID:	27338
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C25
East
1/4 - 1/2 Mile
Higher

CA WELLS **CADDW0000022208**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation		Database	EDR ID Number
26 **NE** **1/2 - 1 Mile** **Higher**		**CA WELLS**	**CADWR9000037633**

State Well #:	01S07E31J001M	Station ID:	3919
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F27 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000127678**

F28 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000085302**

F29 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000079872**

F30 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000104491**

F31 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CADDW0000000524**

F32 **WSW** **1/2 - 1 Mile** **Lower**		**CA WELLS**	**CAEDF0000112859**

F33 **West** **1/2 - 1 Mile** **Higher**		**CA WELLS**	**CAEDF0000080053**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
F34 **West** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000139044**
F35 **West** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000067686**
F36 **West** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000140872**
F37 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000143429**
F38 **WSW** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CADWR9000037605**

State Well #:	02S07E06D001M	Station ID:	6766
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G39 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000023167**
G40 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000099950**
G41 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000125387**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
G42 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000022321**
G43 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000138323**
44 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000100608**
G45 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000033149**
H46 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADWR0000014216**
I47 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000014337**
I48 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000001865**
I49 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000108726**
I50 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000065304**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
J51 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000093428**
J52 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000043102**
J53 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000008145**
I54 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000100666**
I55 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000132694**
I56 **West** **1/2 - 1 Mile** **Lower**	**CA WELLS**	**CAEDF0000101989**
K57 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000053929**
H58 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000086913**
H59 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000099677**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
H60 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000047585**
H61 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000135183**
62 **South** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADDW0000011791**
K63 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000006026**
K64 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000143046**
K65 **ESE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000095027**
L66 **SSW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADDW0000002245**
L67 **SSW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CALLNL000001255**

Well ID:	101314	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	3910005-016	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Krypton	Results:	.0000000761743
Units:	cm3STP/g	Date:	04/08/2003
Chemical:	Xenon	Results:	.0000000102024
Units:	cm3STP/g	Date:	04/08/2003

Chemical:	Neon	Results:	.000000231067
Units:	cm3STP/g	Date:	04/08/2003
Chemical:	Tritium (Hydrogen 3)	Results:	15.83
Units:	pCi/L	Date:	02/26/2003
Chemical:	Helium-4	Results:	.000000365165
Units:	cm3STP/g	Date:	04/08/2003
Chemical:	Argon	Results:	.00035182
Units:	cm3STP/g	Date:	04/08/2003
Chemical:	Helium-3/Helium-4	Results:	.00000140973
Units:	atom ratio	Date:	04/08/2003

L68
SSW
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037588**

State Well #:	Not Reported	Station ID:	54594
Well Name:	Manteca Well 16	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Single Well
Well Depth:	304	Well Completion Rpt #:	Not Reported

L69
SSW
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000007586**

70
NE
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000523**

Well ID:	101323	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	01S/07E-32H02 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Xenon	Results:	.0000000101422
Units:	cm3STP/g	Date:	11/01/2003
Chemical:	Tritium (Hydrogen 3)	Results:	28.56
Units:	pCi/L	Date:	12/30/2002
Chemical:	Argon	Results:	.000359393
Units:	cm3STP/g	Date:	11/01/2003

Chemical:	Helium-4	Results:	.000000109908
Units:	cm3STP/g	Date:	11/01/2003
Chemical:	Neon	Results:	.000000241196
Units:	cm3STP/g	Date:	11/01/2003
Chemical:	Helium-3/Helium-4	Results:	.00000271955
Units:	atom ratio	Date:	11/01/2003
Chemical:	Krypton	Results:	.0000000772975
Units:	cm3STP/g	Date:	11/01/2003

M71
SE
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000710**

Well ID:	101326	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	2S/07E-05E01 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		
Chemical:	Argon	Results:	.000365134
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Helium-3/Helium-4	Results:	.0000031801
Units:	atom ratio	Date:	10/31/2003
Chemical:	Neon	Results:	.000000233987
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Tritium (Hydrogen 3)	Results:	48.24
Units:	pCi/L	Date:	12/30/2002
Chemical:	Helium-4	Results:	.000000113927
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Krypton	Results:	.0000000813144
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Xenon	Results:	.0000000108798
Units:	cm3STP/g	Date:	10/31/2003

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

M72
SE
1/2 - 1 Mile
Higher

FED USGS **USGS40000185639**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S007E05E001M	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:	19630101	Well Depth:	162
Well Depth Units:	ft	Well Hole Depth:	300
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-03-29
Feet below surface:	10.00	Feet to sea level:	Not Reported
Note:	Not Reported		

M73
SE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000016730**

N74
NE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000013123**

N75
NE
1/2 - 1 Mile
Higher

CA WELLS **CALLNL000000436**

Well ID:	101321	Well Type:	MUNICIPAL
Source:	Lawrence Livermore National Laboratory		
Other Name:	01S/07E-32D02 M	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	Not Reported		
GeoTracker Data:	Not Reported		

Chemical:	Tritium (Hydrogen 3)	Results:	23.88
Units:	pCi/L	Date:	12/30/2002
Chemical:	Helium-4	Results:	.000000160216
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Neon	Results:	.000000232397
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Xenon	Results:	.0000000110154

Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Argon	Results:	.000366683
Units:	cm3STP/g	Date:	10/31/2003
Chemical:	Helium-3/Helium-4	Results:	.0000021864
Units:	atom ratio	Date:	10/31/2003
Chemical:	Krypton	Results:	.0000000814811
Units:	cm3STP/g	Date:	10/31/2003

76
NNW **FED USGS** **USGS40000185771**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007E31C001M	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:	19510601	Well Depth:	88
Well Depth Units:	ft	Well Hole Depth:	120
Well Hole Depth Units:	ft		

77
East **FED USGS** **USGS40000185710**
1/2 - 1 Mile
Higher

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007E32P001M	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:	19490101	Well Depth:	100
Well Depth Units:	ft	Well Hole Depth:	155
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1965-03-29
Feet below surface:	11.00	Feet to sea level:	Not Reported
Note:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

N78
NE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037641**

State Well #:	Not Reported	Station ID:	54593
Well Name:	Manteca Well 15	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Single Well
Well Depth:	265	Well Completion Rpt #:	Not Reported

79
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000009810**

O80
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037649**

State Well #:	01S07E31A001M	Station ID:	3918
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	130	Well Completion Rpt #:	Not Reported

O81
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000141857**

P82
SE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000001025**

P83
SE
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000014300**

O84
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000115833**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance Elevation	Database	EDR ID Number
O85 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000127142**
O86 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000089306**
O87 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000039208**
O88 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000058613**
O89 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000138478**
Q90 **NNE** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CAEDF0000064088**
O91 **NNE** **1/2 - 1 Mile** **Higher**	**FED USGS**	**USGS40000185778**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007E32D001M	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:	19510501	Well Depth:	Not Reported
Well Depth Units:	Not Reported	Well Hole Depth:	120
Well Hole Depth Units:	ft		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

O92
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000113261**

O93
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000062953**

R94
NNE
1/2 - 1 Mile
Higher

FED USGS **USGS40000185787**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001S007E30R001M	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:	19660721	Well Depth:	140
Well Depth Units:	ft	Well Hole Depth:	158
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1966-07-21
Feet below surface:	21.50	Feet to sea level:	Not Reported
Note:	Not Reported		

O95
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000042343**

Q96
NNE
1/2 - 1 Mile
Higher

CA WELLS **CAEDF0000058697**

R97
NNE
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000037658**

State Well #:	01S07E30R001M	Station ID:	26430
Well Name:	01S07E30R001M	Basin Name:	Eastern San Joaquin
Well Use:	Residential	Well Type:	Single Well
Well Depth:	158	Well Completion Rpt #:	44736

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

98
SSE
1/2 - 1 Mile
Higher

FED USGS **USGS40000185589**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	002S007E06R001M	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:	19740801	Well Depth:	98
Well Depth Units:	ft	Well Hole Depth:	98
Well Hole Depth Units:	ft		

Ground water levels,Number of Measurements:	1	Level reading date:	1974-08-01
Feet below surface:	12.00	Feet to sea level:	Not Reported
Note:	Not Reported		

S99
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000084467**

S100
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000048435**

S101
West
1/2 - 1 Mile
Lower

CA WELLS **CAEDF0000003499**

S102
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000002135**

S103
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000008225**

S104
West
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000023052**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
CA WELLS	**CADWR9000037653**

O105
NNE
1/2 - 1 Mile
Higher

State Well #:	01S07E29N001M	Station ID:	3916
Well Name:	Not Reported	Basin Name:	Eastern San Joaquin
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1
SE **OIL_GAS** **CAOG14000008278**
1/4 - 1/2 Mile

API #:	0407700369	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Great Basins-Lefler	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	01/03/1963		

2
SSE **OIL_GAS** **CAOG14000008279**
1/2 - 1 Mile

API #:	0407700370	Well #:	76-6
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Holloway	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	05/09/1961		

3
NNE **OIL_GAS** **CAOG14000008243**
1/2 - 1 Mile

API #:	0407700333	Well #:	1
Well Status:	Plugged	Well Type:	Dry Hole
Lease Name:	Schleiss	Field Name:	Any Field
Area Name:	Any Area	GIS Source:	hud
Confidential Well:	N	Directionally Drilled:	N
Spud Date:	12/01/1959		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
95337	5	1

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 SAN JOAQUIN COUNTY, CA

Number of sites tested: 20

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.530 pCi/L	90%	10%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.050 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

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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APPENDIX B

FIRST AMERICAN TITLE COMPANY

Preliminary Title Report

First American	ALTA Commitment for Title Insurance
Commitment	ISSUED BY **First American Title Insurance Company** File No: NCS-1086537-PHX1

COMMITMENT FOR TITLE INSURANCE

Issued By

FIRST AMERICAN TITLE INSURANCE COMPANY

NOTICE

IMPORTANT-READ CAREFULLY: THIS COMMITMENT IS AN OFFER TO ISSUE ONE OR MORE TITLE INSURANCE POLICIES. ALL CLAIMS OR REMEDIES SOUGHT AGAINST THE COMPANY INVOLVING THE CONTENT OF THIS COMMITMENT OR THE POLICY MUST BE BASED SOLELY IN CONTRACT.

THIS COMMITMENT IS NOT AN ABSTRACT OF TITLE, REPORT OF THE CONDITION OF TITLE, LEGAL OPINION, OPINION OF TITLE, OR OTHER REPRESENTATION OF THE STATUS OF TITLE. THE PROCEDURES USED BY THE COMPANY TO DETERMINE INSURABILITY OF THE TITLE, INCLUDING ANY SEARCH AND EXAMINATION, ARE PROPRIETARY TO THE COMPANY, WERE PERFORMED SOLELY FOR THE BENEFIT OF THE COMPANY, AND CREATE NO EXTRACONTRACTUAL LIABILITY TO ANY PERSON, INCLUDING A PROPOSED INSURED.

THE COMPANY'S OBLIGATION UNDER THIS COMMITMENT IS TO ISSUE A POLICY TO A PROPOSED INSURED IDENTIFIED IN SCHEDULE A IN ACCORDANCE WITH THE TERMS AND PROVISIONS OF THIS COMMITMENT. THE COMPANY HAS NO LIABILITY OR OBLIGATION INVOLVING THE CONTENT OF THIS COMMITMENT TO ANY OTHER PERSON.

COMMITMENT TO ISSUE POLICY

Subject to the Notice; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and the Commitment Conditions, ***First American Title Insurance Company***, a Nebraska Corporation (the "Company"), commits to issue the Policy according to the terms and provisions of this Commitment. This Commitment is effective as of the Commitment Date shown in Schedule A for each Policy described in Schedule A, only when the Company has entered in Schedule A both the specified dollar amount as the Proposed Policy Amount and the name of the Proposed Insured.

If all of the Schedule B, Part I-Requirements have not been met within six months after the Commitment Date, this Commitment terminates and the Company's liability and obligation end.

First American Title Insurance Company

Dennis J. Gilmore, President

Greg L. Smith, Secretary

If this jacket was created electronically, it constitutes an original document.

This page is only a part of a 2016 ALTA® Commitment for Title Insurance issued by First American Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions.

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COMMITMENT CONDITIONS

1. DEFINITIONS

(a) "Knowledge" or "Known": Actual or imputed knowledge, but not constructive notice imparted by the Public Records.
(b) "Land": The land described in Schedule A and affixed improvements that by law constitute real property. The term "Land" does not include any property beyond the lines of the area described in Schedule A, nor any right, title, interest, estate, or easement in abutting streets, roads, avenues, alleys, lanes, ways, or waterways, but this does not modify or limit the extent that a right of access to and from the Land is to be insured by the Policy.
(c) "Mortgage": A mortgage, deed of trust, or other security instrument, including one evidenced by electronic means authorized by law.
(d) "Policy": Each contract of title insurance, in a form adopted by the American Land Title Association, issued or to be issued by the Company pursuant to this Commitment.
(e) "Proposed Insured": Each person identified in Schedule A as the Proposed Insured of each Policy to be issued pursuant to this Commitment.
(f) "Proposed Policy Amount": Each dollar amount specified in Schedule A as the Proposed Policy Amount of each Policy to be issued pursuant to this Commitment.
(g) "Public Records": Records established under state statutes at the Commitment Date for the purpose of imparting constructive notice of matters relating to real property to purchasers for value and without Knowledge.
(h) "Title": The estate or interest described in Schedule A.

2. If all of the Schedule B, Part I—Requirements have not been met within the time period specified in the Commitment to Issue Policy, this Commitment terminates and the Company's liability and obligation end.

3. The Company's liability and obligation is limited by and this Commitment is not valid without:
(a) the Notice;
(b) the Commitment to Issue Policy;
(c) the Commitment Conditions;
(d) Schedule A;
(e) Schedule B, Part I—Requirements; and
(f) Schedule B, Part II—Exceptions.

4. COMPANY'S RIGHT TO AMEND

The Company may amend this Commitment at any time. If the Company amends this Commitment to add a defect, lien, encumbrance, adverse claim, or other matter recorded in the Public Records prior to the Commitment Date, any liability of the Company is limited by Commitment Condition 5. The Company shall not be liable for any other amendment to this Commitment.

5. LIMITATIONS OF LIABILITY

(a) The Company's liability under Commitment Condition 4 is limited to the Proposed Insured's actual expense incurred in the interval between the Company's delivery to the Proposed Insured of the Commitment and the delivery of the amended Commitment, resulting from the Proposed Insured's good faith reliance to:
  (i) comply with the Schedule B, Part I—Requirements;
  (ii) eliminate, with the Company's written consent, any Schedule B, Part II—Exceptions; or
  (iii) acquire the Title or create the Mortgage covered by this Commitment.
(b) The Company shall not be liable under Commitment Condition 5(a) if the Proposed Insured requested the amendment or had Knowledge of the matter and did not notify the Company about it in writing.
(c) The Company will only have liability under Commitment Condition 4 if the Proposed Insured would not have incurred the expense had the Commitment included the added matter when the Commitment was first delivered to the Proposed Insured.
(d) The Company's liability shall not exceed the lesser of the Proposed Insured's actual expense incurred in good faith and described in Commitment Conditions 5(a)(i) through 5(a)(iii) or the Proposed Policy Amount.
(e) The Company shall not be liable for the content of the Transaction Identification Data, if any.
(f) In no event shall the Company be obligated to issue the Policy referred to in this Commitment unless all of the Schedule B, Part I—Requirements have been met to the satisfaction of the Company.
(g) In any event, the Company's liability is limited by the terms and provisions of the Policy.

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6. LIABILITY OF THE COMPANY MUST BE BASED ON THIS COMMITMENT

(a) Only a Proposed Insured identified in Schedule A, and no other person, may make a claim under this Commitment.
(b) Any claim must be based in contract and must be restricted solely to the terms and provisions of this Commitment.
(c) Until the Policy is issued, this Commitment, as last revised, is the exclusive and entire agreement between the parties with respect to the subject matter of this Commitment and supersedes all prior commitment negotiations, representations, and proposals of any kind, whether written or oral, express or implied, relating to the subject matter of this Commitment.
(d) The deletion or modification of any Schedule B, Part II—Exception does not constitute an agreement or obligation to provide coverage beyond the terms and provisions of this Commitment or the Policy.
(e) Any amendment or endorsement to this Commitment must be in writing and authenticated by a person authorized by the Company.
(f) When the Policy is issued, all liability and obligation under this Commitment will end and the Company's only liability will be under the Policy.

7. IF THIS COMMITMENT HAS BEEN ISSUED BY AN ISSUING AGENT

The issuing agent is the Company's agent only for the limited purpose of issuing title insurance commitments and policies. The issuing agent is not the Company's agent for the purpose of providing closing or settlement services.

8. PRO-FORMA POLICY

The Company may provide, at the request of a Proposed Insured, a pro-forma policy illustrating the coverage that the Company may provide. A pro-forma policy neither reflects the status of Title at the time that the pro-forma policy is delivered to a Proposed Insured, nor is it a commitment to insure.

9. ARBITRATION

Arbitration provision intentionally removed.

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Transaction Identification Data for reference only:

Issuing Agent: First American Title Insurance Company National Commercial Services
Commitment No.: NCS-1086537-PHX1
Property Address: 1563 West Yosemite Avenue, 1625 West Yosemite Avenue, Manteca, CA
Revision No.:

Issuing Office: 2425 E. Camelback Road, Suite 300, Phoenix, AZ 85016
Issuing Office File No.: NCS-1086537-PHX1
Escrow Officer/Assistant: Brandon Grajewski/

Phone: (602)567-8145/
Email: bgrajewski@firstam.com/
Title Officer/Assistant: Richard E. Brown/
Phone: (602)567-8100/
Email: ribrown@firstam.com/

SCHEDULE A

1. Commitment Date: August 23, 2021 at 7:30 AM

2. Policy to be issued:

   (a) ☒ 2006 ALTA® Extended Owner Policy
   Proposed Insured: Alliance Realty Partners, LLC
   Proposed Policy Amount: $ To Be Determined

   (b) ☐ ALTA® Policy
   Proposed Insured:
   Proposed Policy Amount: $

   (c) ☐ 2006 ALTA® Policy
   Proposed Insured:
   Proposed Policy Amount: $

3. The estate or interest in the Land described or referred to in this Commitment is

   Fee

4. The Title is, at the Commitment Date, vested in:

   The Brocchini Family Partnership, a California limited partnership

5. The Land is described as follows:

   See Exhibit "A" attached hereto and made a part hereof

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Commitment No.: NCS-1086537-PHX1

SCHEDULE B, PART I

Requirements

All of the following Requirements must be met:

A. The Proposed Insured must notify the Company in writing of the name of any party not referred to in this Commitment who will obtain an interest in the Land or who will make a loan on the Land. The Company may then make additional Requirements or Exceptions.

B. Pay the agreed amount for the estate or interest to be insured.

C. Pay the premiums, fees, and charges for the Policy to the Company.

D. Documents satisfactory to the Company that convey the Title or create the Mortgage to be insured, or both, must be properly authorized, executed, delivered, and recorded in the Public Records.

E. Releases(s) or Reconveyance(s) of Item(s): None

F. Other: None

G. You must give us the following information:
   a. Any off record leases, surveys, etc.
   b. Statement(s) of Identity, all parties.
   c. Other: None

The following additional requirements, as indicated by "X", must be met:

[X] H. Provide information regarding any off-record matters, which may include, but are not limited to: leases, recent works of improvement, or commitment statements in effect under the Environmental Responsibility Acceptance Act, Civil Code Section 850, et seq.

The Company's Owner's Affidavit form (as provided by the company) must be completed and submitted prior to close in order to satisfy this requirement. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

[X] I. An ALTA/NSPS survey of recent date, which complies with the current minimum standard detail requirements for ALTA/NSPS land title surveys, must be submitted to the Company for review. This Commitment will then be subject to such further exceptions and/or requirements as may be deemed necessary.

This page is only a part of a 2016 ALTA® Commitment for Title Insurance issued by First American Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions.

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[] J. The following LLC documentation is required from:

(i) a copy of the Articles of Organization
(ii) a copy of the Operating Agreement, if applicable
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Company Consent to the current transaction

[X] K. The following partnership documentation is required **:**

(i) a copy of the partnership agreement, including all applicable amendments thereto
(ii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iii) express Partnership Consent to the current transaction

[] L. The following corporation documentation is required:

(i) a copy of the Articles of Incorporation
(ii) a copy of the Bylaws, including all applicable Amendments thereto
(iii) a Certificate of Good Standing and/or other evidence of current Authority to Conduct Business within the State
(iv) express Corporate Resolution consenting to the current transaction

[X] M. Based upon the Company's review of that certain partnership/operating agreement dated **Not disclosed** for the proposed insured herein, the following requirements must be met:
Any further amendments to said agreement must be submitted to the Company, together with an affidavit from one of the general partners or members stating that it is a true copy, that said partnership or limited liability company is in full force and effect, and that there have been no further amendments to the agreement. This Commitment will then be subject to such further requirements as may be deemed necessary.

[] N. A copy of the complete lease, as referenced in Schedule A, #3 herein, together with any amendments and/or assignments thereto, must be submitted to the Company for review, along with an affidavit executed by the present lessee stating that it is a true copy, that the lease is in full force and effect, and that there have been no further amendments to the lease. This Commitment will then be subject to such further requirements as may be deemed necessary.

[X] O. Approval from the Company's Underwriting Department must be obtained for issuance of the policy contemplated herein and any endorsements requested thereunder. This Commitment will then be subject to such further requirements as may be required to obtain such approval.

[] P. Potential additional requirements, if ALTA Extended coverage is contemplated hereunder, and work on the land has commenced prior to close, some or all of the following requirements, and any other requirements which may be deemed necessary, may need to be met:

[] Q. The Company's "Indemnity Agreement I" must be executed by the appropriate parties.

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[] R. Financial statements from the appropriate parties must be submitted to the Company for review.

[] S. A copy of the construction contract must be submitted to the Company for review.

[] T. An inspection of the Land must be performed by the Company for verification of the phase of construction.

[] U. The Company's "Mechanic's Lien Risk Addendum" form must be completed by a Company employee, based upon information furnished by the appropriate parties involved.

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Commitment No.: NCS-1086537-PHX1

SCHEDULE B, PART II

Exceptions

THIS COMMITMENT DOES NOT REPUBLISH ANY COVENANT, CONDITION, RESTRICTION, OR LIMITATION CONTAINED IN ANY DOCUMENT REFERRED TO IN THIS COMMITMENT TO THE EXTENT THAT THE SPECIFIC COVENANT, CONDITION, RESTRICTION, OR LIMITATION VIOLATES STATE OR FEDERAL LAW BASED ON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, GENDER IDENTITY, HANDICAP, FAMILIAL STATUS, OR NATIONAL ORIGIN.

The Policy will not insure against loss or damage resulting from the terms and provisions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

1. Any defect, lien, encumbrance, adverse claim, or other matter that appears for the first time in the Public Records or is created, attaches, or is disclosed between the Commitment Date and the date on which all of the Schedule B, Part I-Requirements are met.

2. (a) Taxes or assessments that are not shown as existing liens by the records of any taxing authority that levies taxes or assessments on real property or by the Public Records; (b) proceedings by a public agency that may result in taxes or assessments, or notices of such proceedings, whether or not shown by the records of such agency or by the Public Records.

3. Any facts, rights, interests, or claims that are not shown by the Public Records but that could be ascertained by an inspection of the Land or that may be asserted by persons in possession of the Land.

4. Easements, liens or encumbrances, or claims thereof, not shown by the Public Records.

5. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey of the Land and not shown by the Public Records.

6. (a) Unpatented mining claims; (b) reservations or exceptions in patents or in Acts authorizing the issuance thereof; (c) water rights, claims or title to water, whether or not the matters excepted under (a), (b), or (c) are shown by the Public Records.

7. General and special taxes and assessments for the fiscal year 2020-2021, a lien not yet due or payable.

8. The lien of supplemental taxes, if any, assessed pursuant to Chapter 3.5 commencing with Section 75 of the California Revenue and Taxation Code.

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9. An easement for right of way for a pipe line and incidental purposes, recorded September 7, 1961 as Book 2454, Page 359 of Official Records.
In Favor of: South San Joaquin Irrigation District
Affects: As described therein

10. An oil and gas lease executed by Aldo Brocchini and Mabel Brocchini, Co-Trustees or the Successor Trustee, of The Aldo and Mabel Brocchini Trust, dated August 14, 1973 as lessor and Rushing Minerals, Inc., a California corporation as lessee, recorded September 8, 1981 as Instrument No. 81058500 of Official Records.

Defects, liens, encumbrances or other matters affecting the leasehold estate, whether or not shown by the public records.

11. An easement for water main and incidental purposes, recorded April 7, 1989 as Instrument No. 89030489 of Official Records.
In Favor of: St. Joseph's Healthcare Corporation, a California corporation, and St. Joseph's Hospital of Stockton, a California corporation, d.b.a. St. Joseph's Medical Center of Stockton
Affects: As described therein

12. An easement for water line and incidental purposes, recorded March 20, 1990 as Instrument No. 90027654 of Official Records.
In Favor of: City of Manteca
Affects: As described therein

13. The Terms, Provisions and Easement(s) contained in the document entitled "Easement Agreement" recorded October 25, 1995 as Instrument No. 95099138 of Official Records.

14. The fact that the land lies within the boundaries of the Manteca Redevelopment Project Area, as disclosed by the document recorded November 22, 1999 as Instrument No. 99144913 of Official Records.

15. We find no outstanding voluntary liens of record affecting subject property. An inquiry should be made concerning the existence of any unrecorded lien or other indebtedness which could give rise to any security interest in the subject property.

16. Any facts, rights, interests or claims which would be disclosed by a correct ALTA/NSPS survey.

17. Water rights, claims or title to water, whether or not shown by the Public Records.

18. Rights of parties in possession.

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INFORMATIONAL NOTES

ALERT - CA Senate Bill 2 imposes an additional fee of $75 up to $225 at the time of recording on certain transactions effective January 1, 2018. Please contact your First American Title representative for more information on how this may affect your closing.

1. Taxes for proration purposes only for the fiscal year 2020-2021.

First Installment:	$452.71, PAID
Second Installment:	$452.71, PAID
Tax Rate Area:	002-055
APN:	200-150-260

   (Affects Parcel Two)

2. Taxes for proration purposes only for the fiscal year 2020-2021.

First Installment:	$523.75, PAID
Second Installment:	$523.75, PAID
Tax Rate Area:	002-055
APN:	200-150-270

   (Affects Parcel One)

3. The property covered by this report is vacant land.

4. According to the public records, there has been no conveyance of the land within a period of twenty-four months prior to the date of this report, except as follows:

   None

5. This preliminary report/commitment was prepared based upon an application for a policy of title insurance that identified land by street address or assessor's parcel number only. It is the responsibility of the applicant to determine whether the land referred to herein is in fact the land that is to be described in the policy or policies to be issued.

The map attached, if any, may or may not be a survey of the land depicted thereon. First American Title Insurance Company expressly disclaims any liability for loss or damage which may result from reliance on this map except to the extent coverage for such loss or damage is expressly provided by the terms and provisions of this Commitment or the Policy, if any, to which the map is attached.

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Exhibit A

File No.: NCS-1086537-PHX1

The Land referred to herein below is situated in the City of Manteca, County of San Joaquin, State of California, and is described as follows:

PARCEL ONE:

LOT 5 OF ARTHUR SALMON SUBDIVISION, ACCORDING TO THE OFFICIAL MAP THEREOF FILED FOR RECORD IN VOL. 8 OF MAPS, PAGE 11, SAN JOAQUIN COUNTY RECORDS.

EXCEPT STATE HIGHWAY ALONG THE SOUTH LINE.

PARCEL TWO:

PARCEL 2 AS SHOWN ON LOT LINE ADJUSTMENT NO. LLA02-16, AS EVIDENCED BY DOCUMENT RECORDED JANUARY 31, 2003 AS INSTRUMENT NO. 2003-021955 OF OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOT 6 OF THE "ARTHUR SALMON SUBDIVISION" ACCORDING TO THE OFFICIAL MAP THEREOF FILED FOR RECORD IN BOOK 8 OF MAPS AND PLATS, PAGE 11, SAN JOAQUIN COUNTY RECORDS, LOCATED IN SECTION 31, TOWNSHIP 1 SOUTH, RANGE 7 EAST, MOUNT DIABLO BASE AND MERIDIAN, IN THE CITY OF MANTECA, COUNTY OF SAN JOAQUIN, STATE OF CALIFORNIA.

EXCEPTING THEREFROM A PORTION OF SAID LOT 6 DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHEASTERLY CORNER OF LOT 21 OF THE "ROOS TRACT" ACCORDING TO THE OFFICIAL MAP THEREOF FILED IN BOOK 5 OF MAPS AND PLATS, PAGE 37, SAN JOAQUIN RECORDS; THENCE SOUTH 1° 47' 14" EAST ALONG THE EAST LINE OF SAID LOT 21, BEING ALSO THE WEST LINE OF SAID LOT 6, A DISTANCE OF 631.72 FEET TO THE NORTH RIGHT-OF-WAY LINE OF YOSEMITE AVENUE; THENCE NORTH 89° 20' 45" EAST ALONG SAID NORTH LINE OF YOSEMITE AVENUE A DISTANCE OF 100.02 FEET; THENCE NORTH 1° 47' 14" WEST PARALLEL WITH AND 100.00 FEET EAST OF SAID EAST LINE OF LOT 21 A DISTANCE OF 631.73 FEET TO THE EASTERLY EXTENSION OF THE NORTH LINE OF SAID LOT 21; THENCE SOUTH 89° 20' 26" WEST ALONG SAID EASTERLY EXTENSION OF THE NORTH LINE OF LOT 21 A DISTANCE OF 100.02 FEET TO THE POINT OF BEGINNING.

For conveyancing purposes only: APN 200-150-270 (Affects the Parcel One) and 200-150-260 (Affects the Parcel Two)

This page is only a part of a 2016 ALTA® Commitment for Title Insurance issued by First American Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions.

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APPENDIX C

ENVIRONMENTAL DATA RESOURCES, INC.

Historical Topographic Map Report

Prose Manteca
1563 West Yosemite Avenue
Manteca, CA 95337

Inquiry Number: 6686940.4
October 01, 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

10/01/21

Site Name:

Prose Manteca
1563 West Yosemite Avenue
Manteca, CA 95337
EDR Inquiry # 6686940.4

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jenna Keith

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.# P2021.005.705
Project: Prose Manteca

Coordinates:

Latitude:	37.799266 37° 47' 57" North
Longitude:	-121.242323 -121° 14' 32" West
UTM Zone:	Zone 10 North
UTM X Meters:	654745.13
UTM Y Meters:	4184998.56
Elevation:	28.00' above sea level

Maps Provided:

2012	1914, 1915
1996	
1994	
1991	
1987	
1976	
1968	
1952	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Lathrop
2012
7.5-minute, 24000



Manteca
2012
7.5-minute, 24000

1996 Source Sheets



Lathrop
1996
7.5-minute, 24000
Aerial Photo Revised 1982

1994 Source Sheets



Lathrop
1994
7.5-minute, 24000
Aerial Photo Revised 1982



Manteca
1994
7.5-minute, 24000
Aerial Photo Revised 1982

1991 Source Sheets

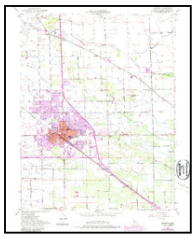


Manteca
1991
7.5-minute, 24000
Aerial Photo Revised 1982

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1987 Source Sheets



Manteca
1987
7.5-minute, 24000
Aerial Photo Revised 1982



Lathrop
1987
7.5-minute, 24000
Aerial Photo Revised 1982

1976 Source Sheets

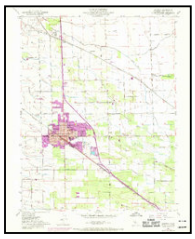


Lathrop
1976
7.5-minute, 24000
Aerial Photo Revised 1976

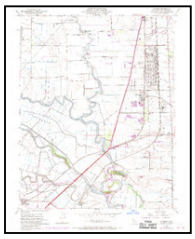


Manteca
1976
7.5-minute, 24000
Aerial Photo Revised 1976

1968 Source Sheets



Manteca
1968
7.5-minute, 24000
Aerial Photo Revised 1968



Lathrop
1968
7.5-minute, 24000
Aerial Photo Revised 1968

1952 Source Sheets



Lathrop
1952
7.5-minute, 24000
Aerial Photo Revised 1949



Manteca
1952
7.5-minute, 24000
Aerial Photo Revised 1949

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1914, 1915 Source Sheets



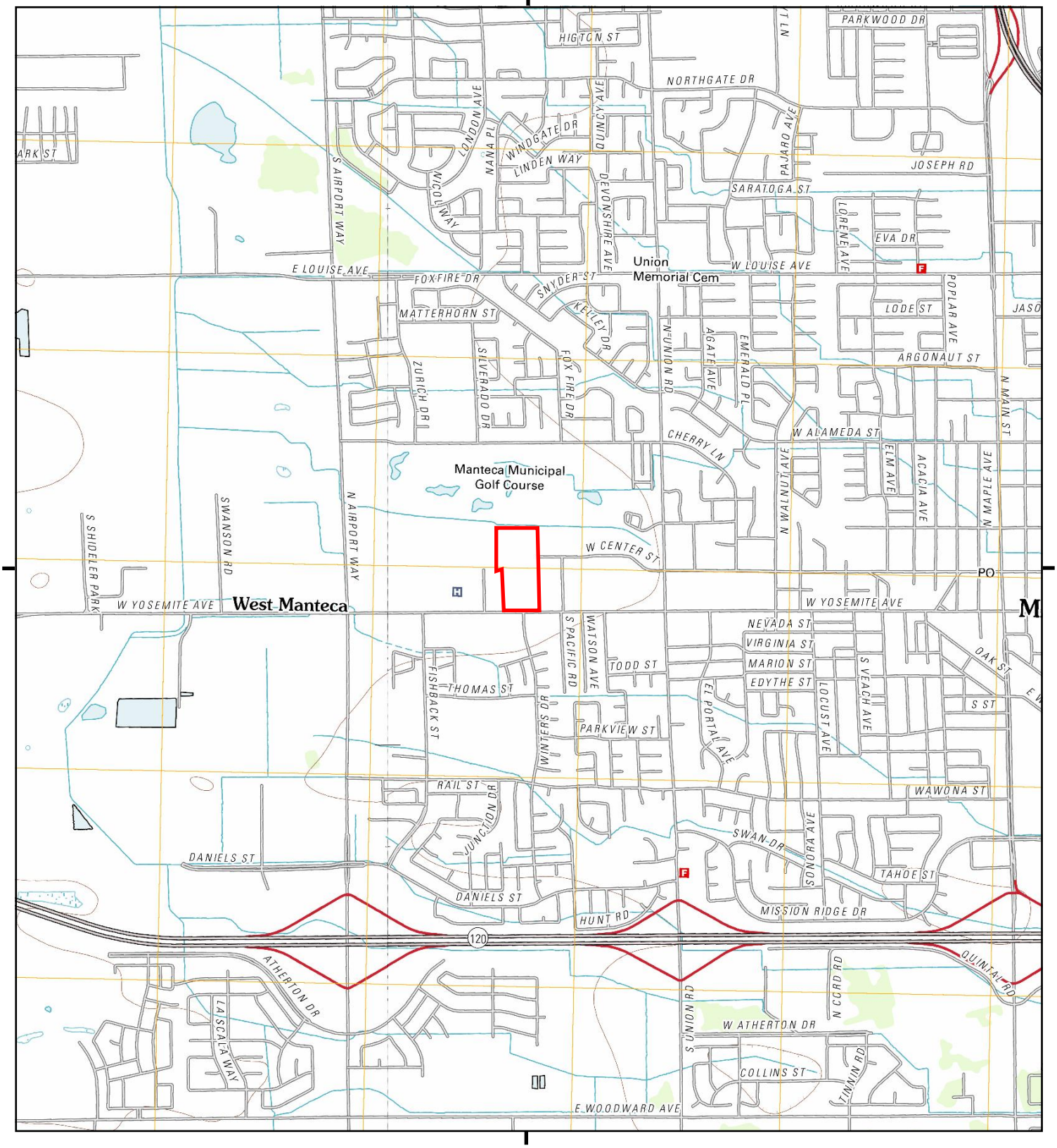
Manteca
1914
7.5-minute, 31680



Lathrop
1915
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

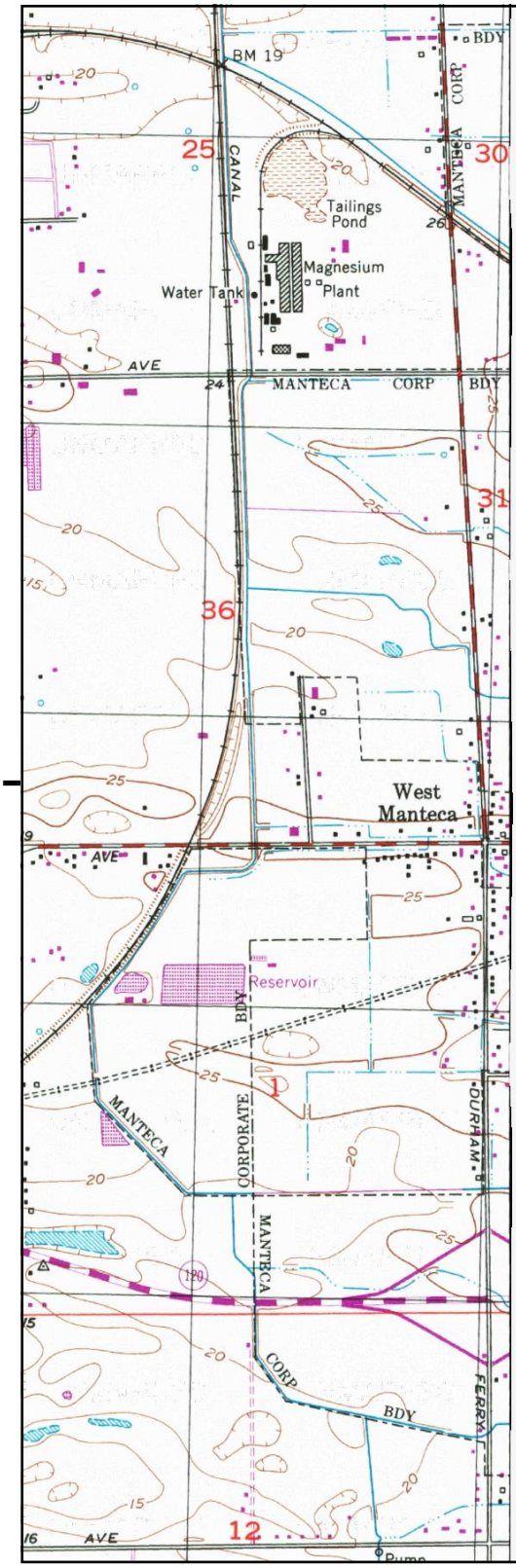
TP, Manteca, 2012, 7.5-minute
W, Lathrop, 2012, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
CLIENT: Engeo Inc.

N

Historical Topo Map

1996



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

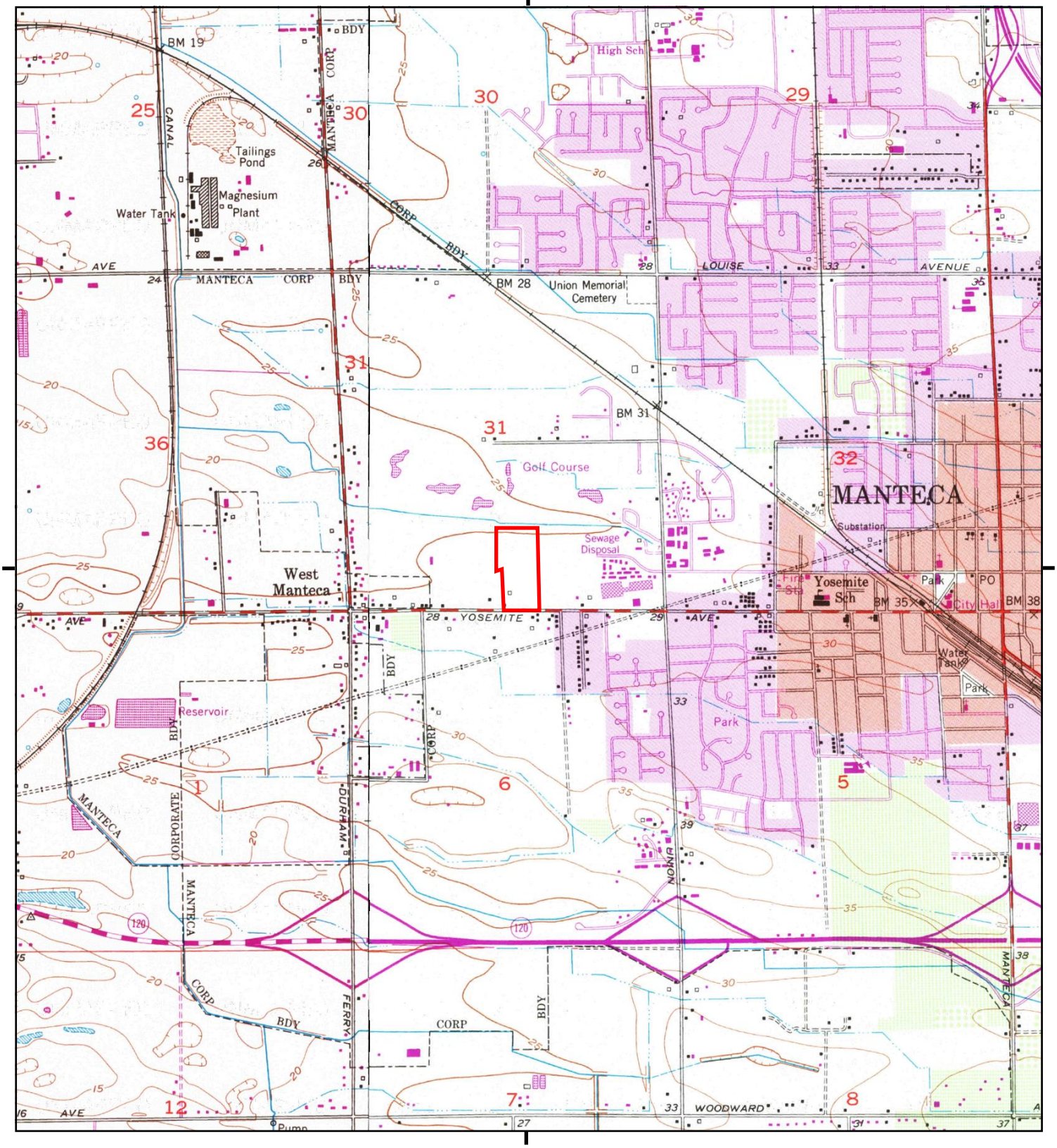
W, Lathrop, 1996, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
CLIENT: Engeo Inc.

N

Historical Topo Map

1994



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

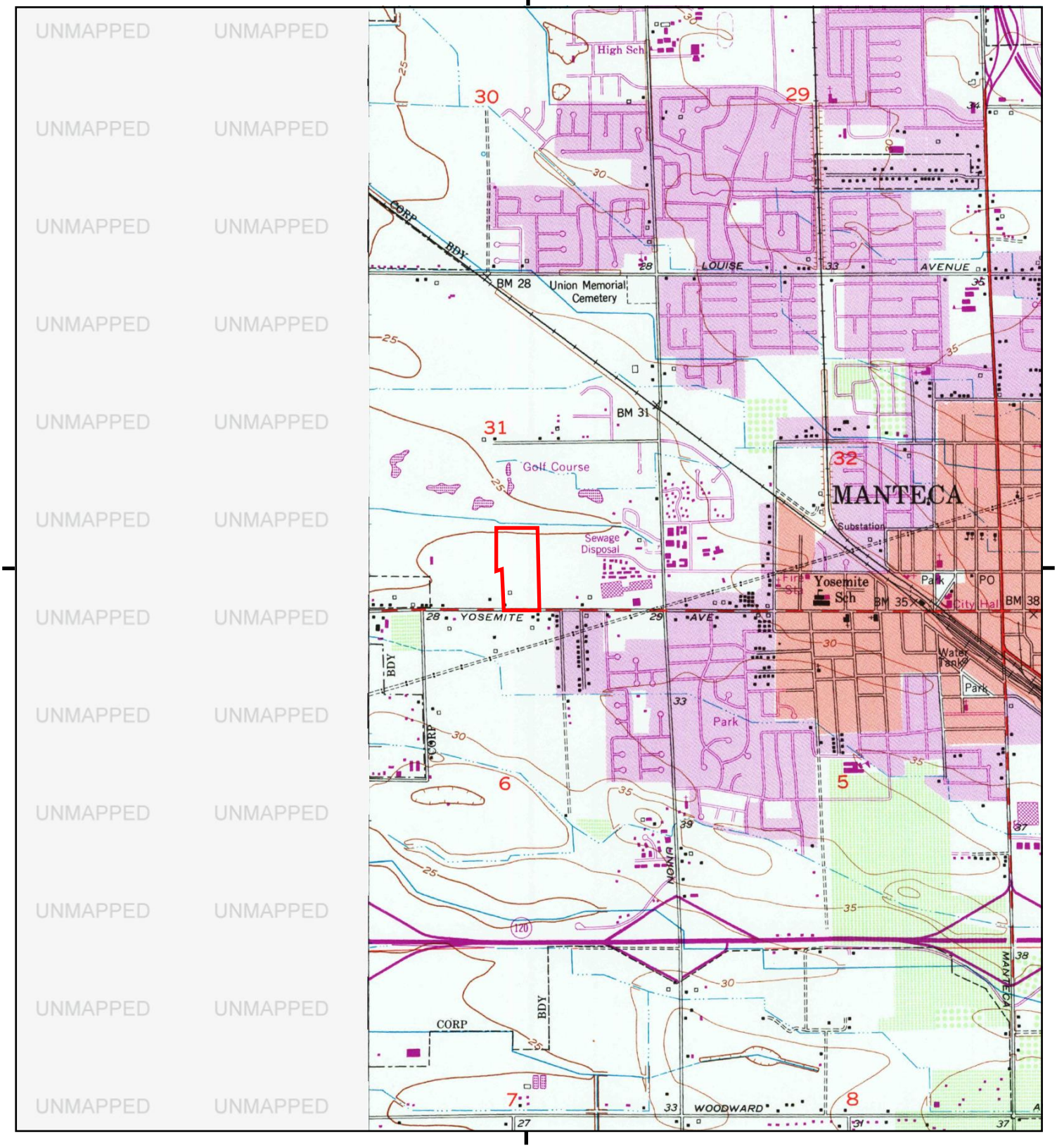
TP, Manteca, 1994, 7.5-minute
W, Lathrop, 1994, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
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

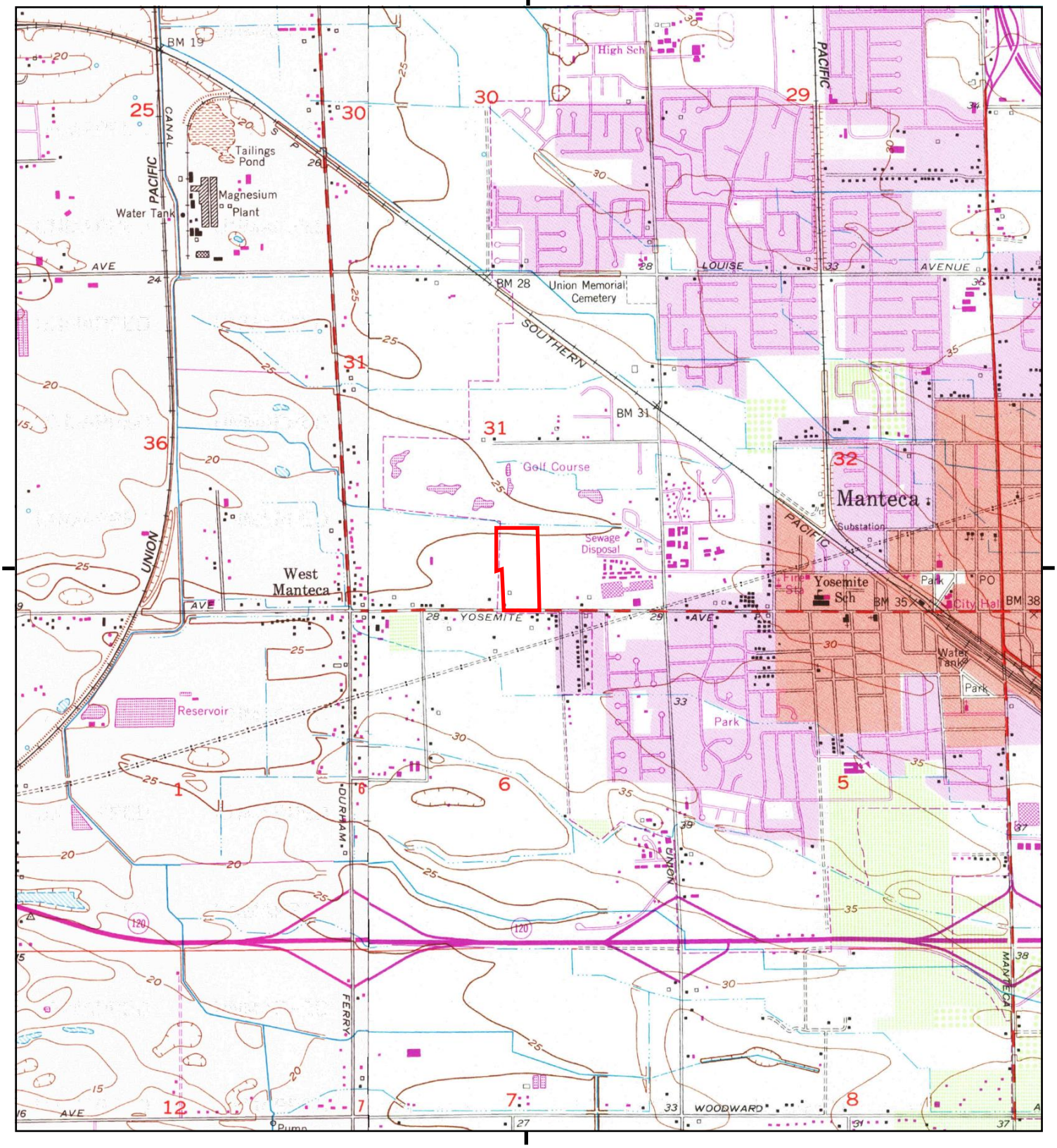
TP, Manteca, 1991, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
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

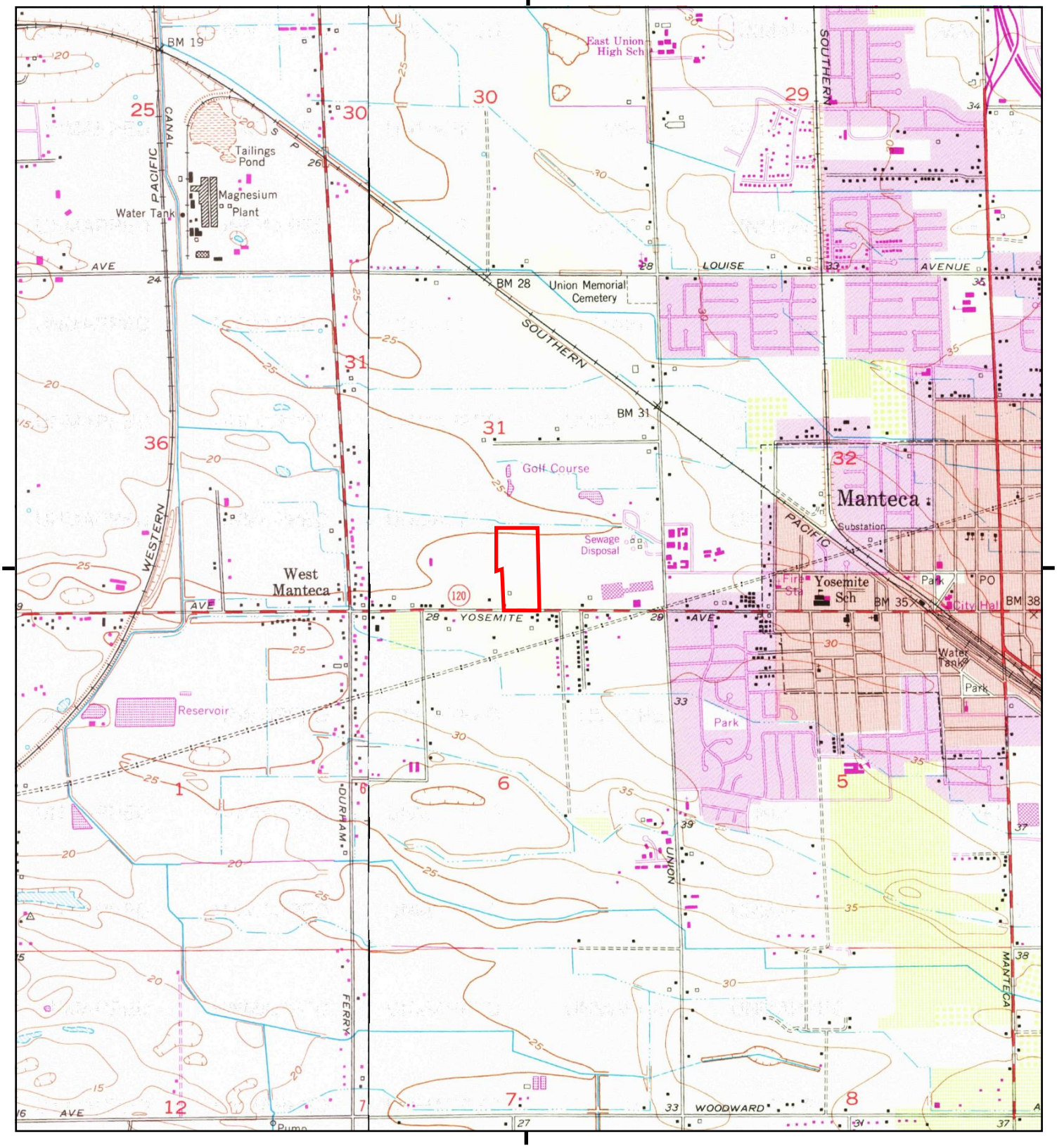
TP, Manteca, 1987, 7.5-minute
W, Lathrop, 1987, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
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

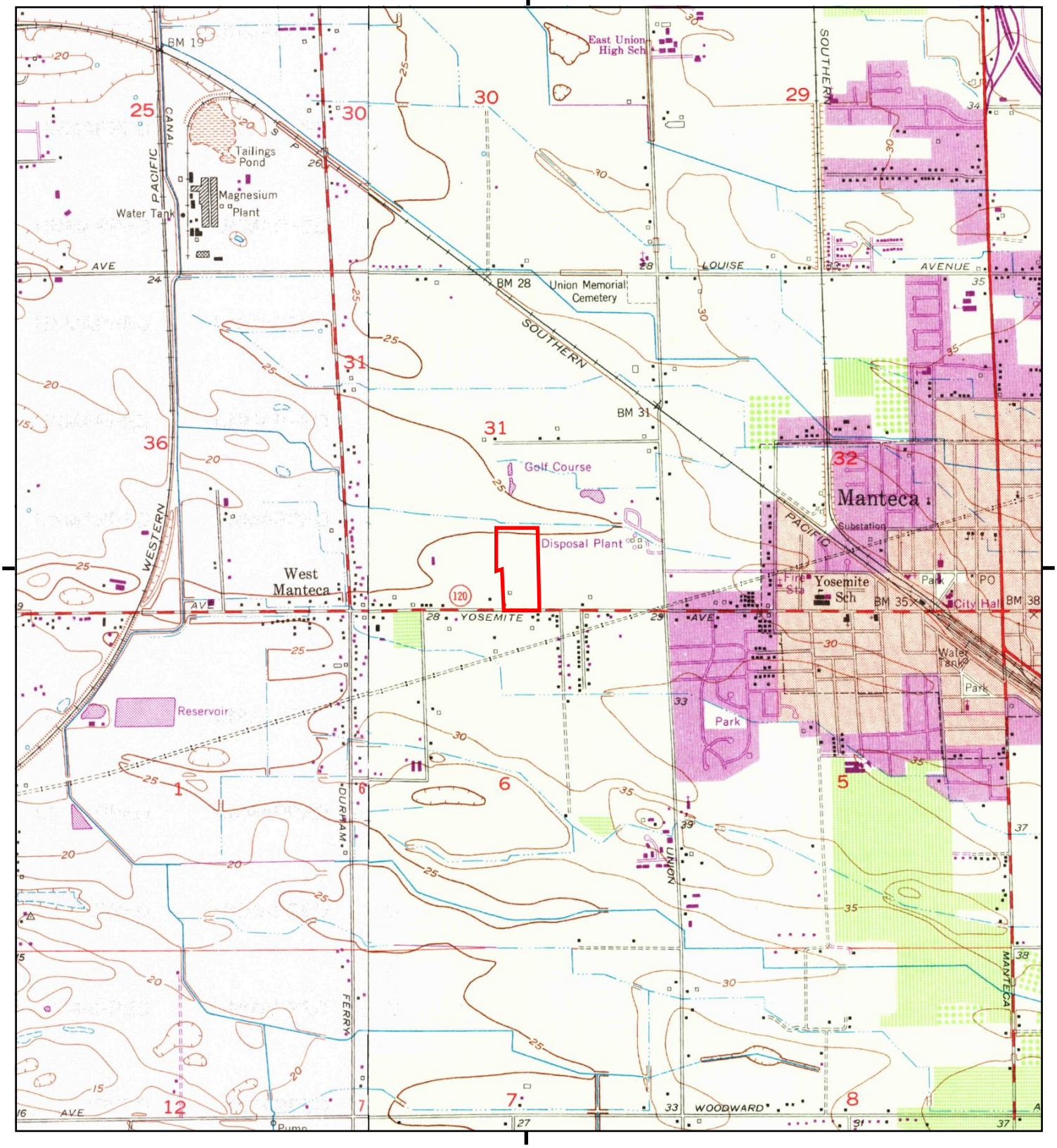
TP, Manteca, 1976, 7.5-minute
W, Lathrop, 1976, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
CLIENT: Engeo Inc.

N

Historical Topo Map

1968



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

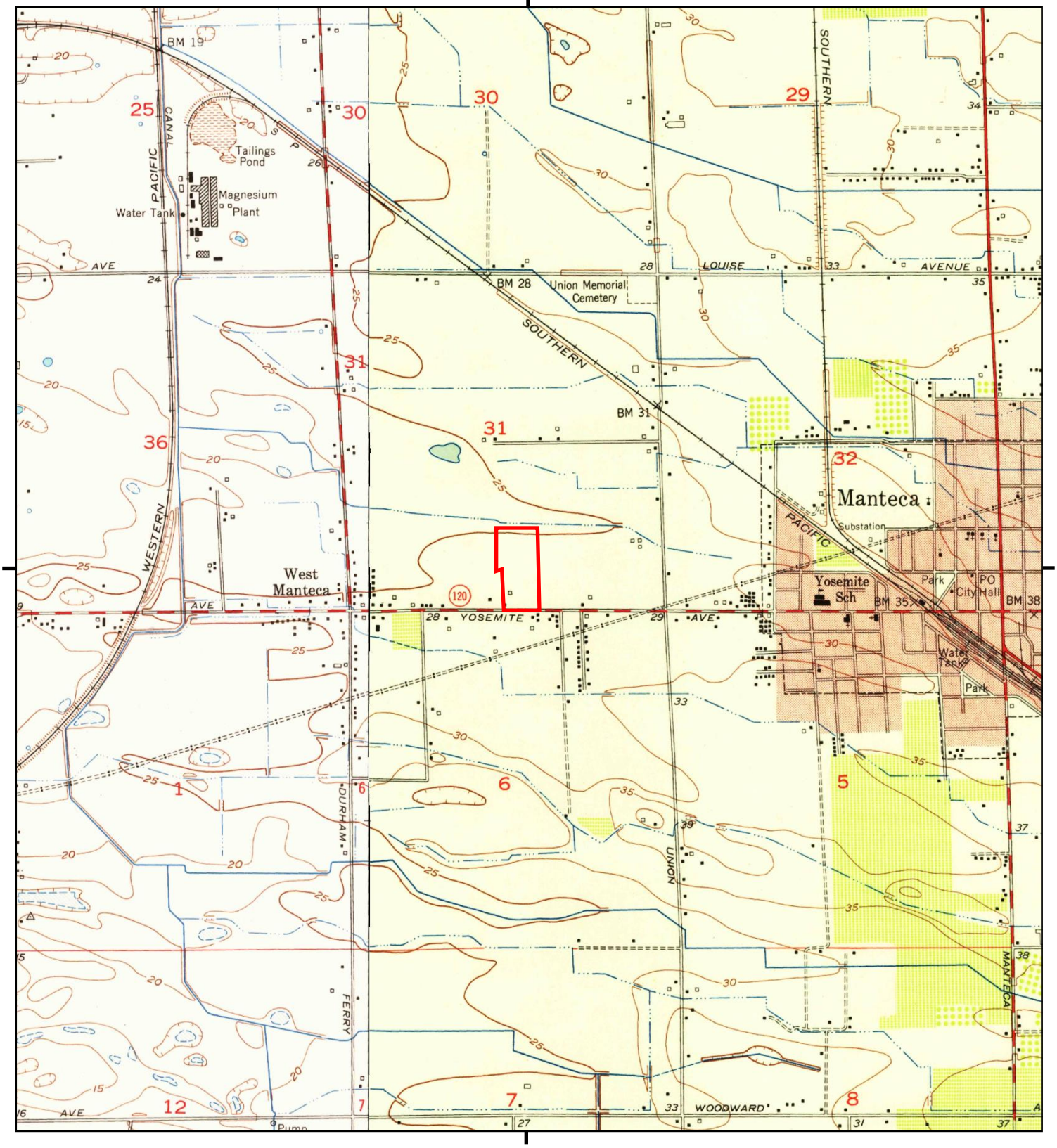
TP, Manteca, 1968, 7.5-minute
W, Lathrop, 1968, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
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

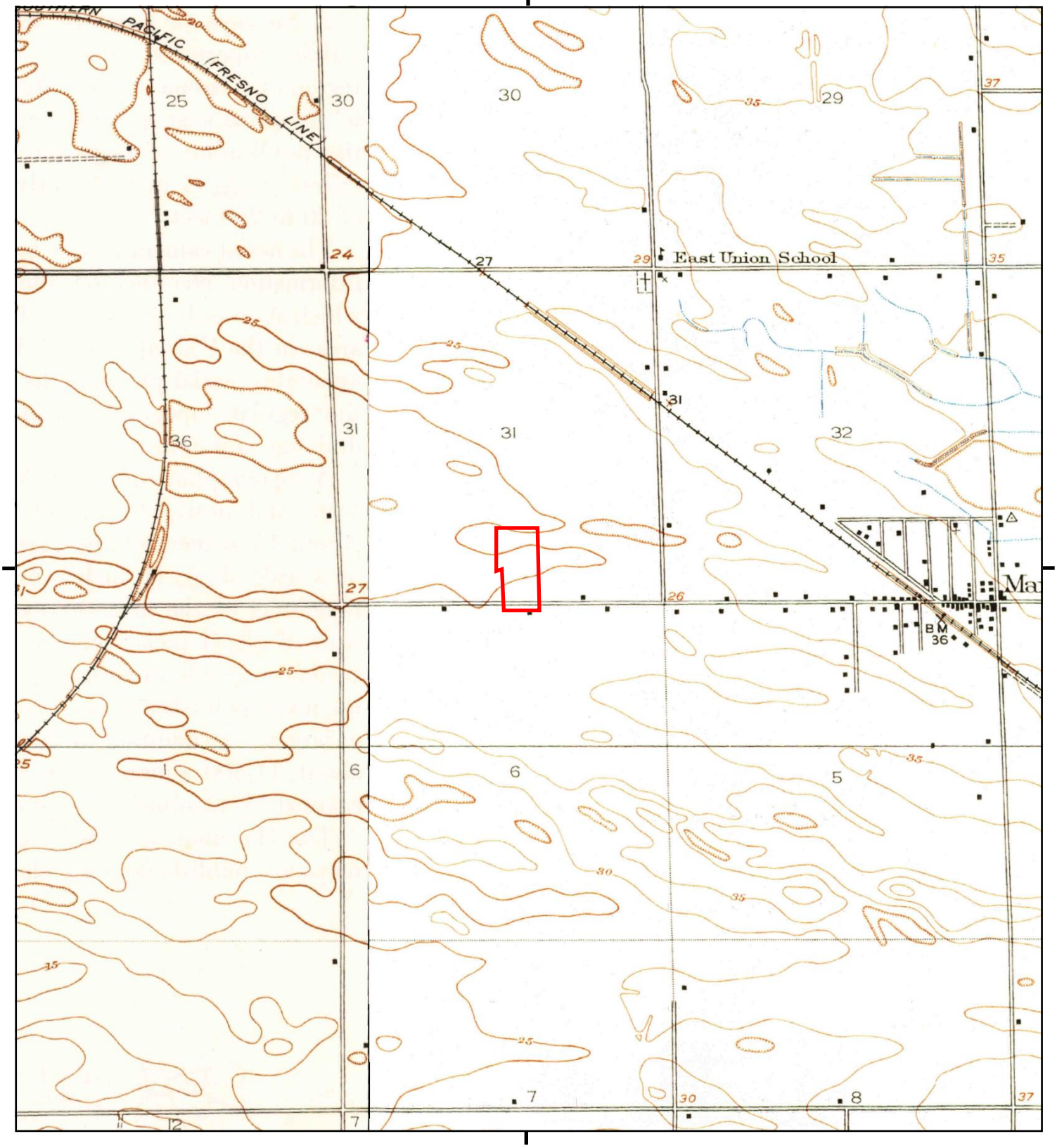
TP, Manteca, 1952, 7.5-minute
W, Lathrop, 1952, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
CLIENT: Engeo Inc.

N

Historical Topo Map

1914, 1915



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
W, Lathrop, 1915, 7.5-minute

SITE NAME: Prose Manteca
ADDRESS: 1563 West Yosemite Avenue
Manteca, CA 95337
CLIENT: Engeo Inc.

N



APPENDIX D

ENVIRONMENTAL DATA RESOURCES, INC.

Aerial Photo Decade Package

Prose Manteca

1563 West Yosemite Avenue

Manteca, CA 95337

Inquiry Number: 6686940.8

October 01, 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

10/01/21

Site Name:

Prose Manteca
1563 West Yosemite Avenue
Manteca, CA 95337
EDR Inquiry # 6686940.8

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jenna Keith

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
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 01, 1963	USDA
1957	1"=500'	Flight Date: July 12, 1957	USDA
1940	1"=500'	Flight Date: May 26, 1940	USDA
1937	1"=500'	Flight Date: August 14, 1937	USDA

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INQUIRY #: 6686940.8

YEAR: 2016

= 500'

N

EDR



INQUIRY #: 6686940.8

YEAR: 2012

= 500'

N

EDR



INQUIRY #: 6686940.8

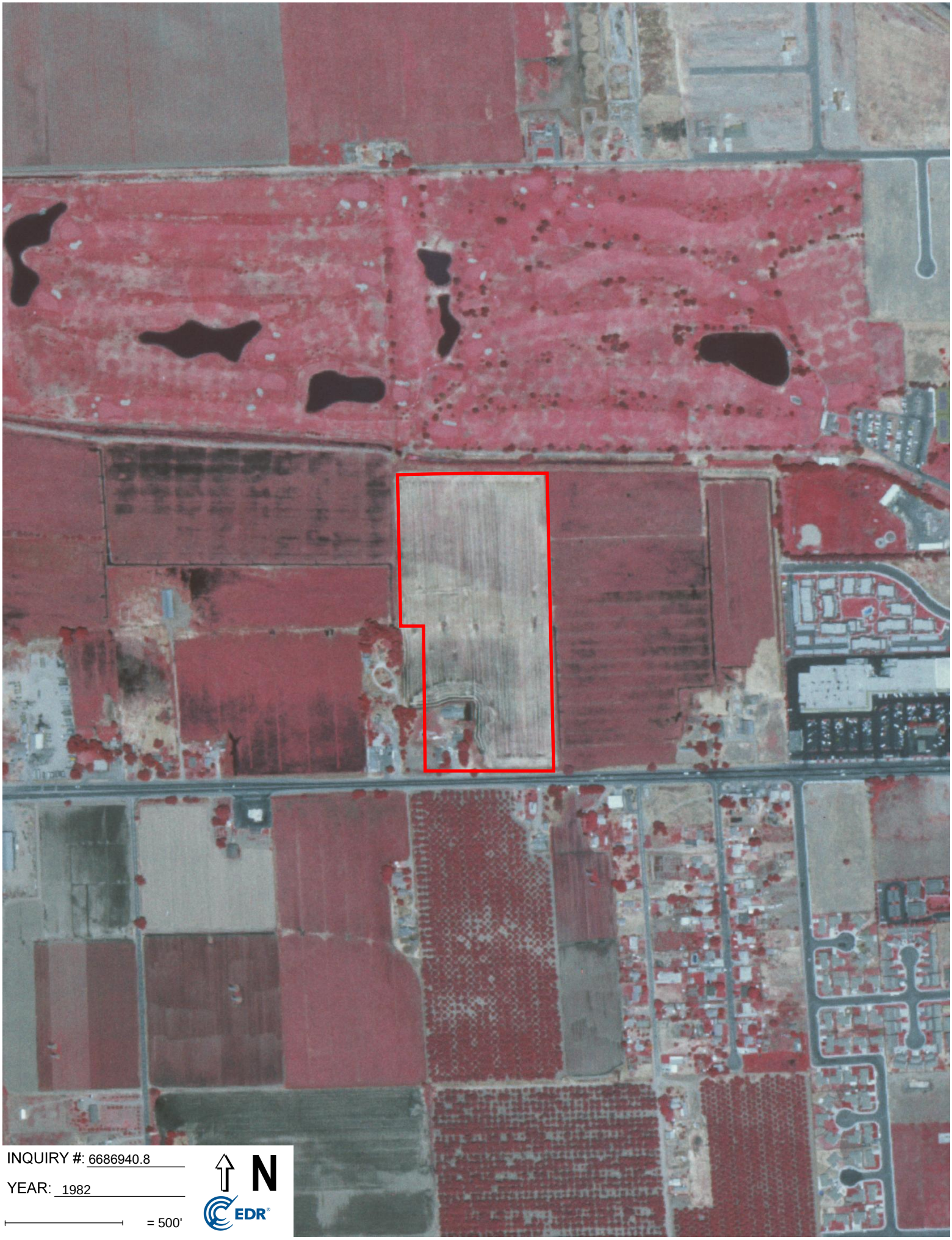
YEAR: 2009

= 500'

N

EDR


INQUIRY #: 6686940.8
YEAR: 2006
= 500'
N
EDR


INQUIRY #: 6686940.8
YEAR: 1982
= 500'
N
EDR



INQUIRY #: 6686940.8

YEAR: 1975

= 500'

N

EDR


INQUIRY #: 6686940.8
YEAR: 1968
= 500'
N
EDR


INQUIRY #: 6686940.8
YEAR: 1963
= 500'
N
EDR


INQUIRY #: 6686940.8
YEAR: 1957
= 500'
N
EDR


INQUIRY #: 6686940.8
YEAR: 1940
= 500'
N
EDR


INQUIRY #: 6686940.8
YEAR: 1937
= 500'
N
EDR



APPENDIX E

ENVIRONMENTAL DATA RESOURCES, INC.

Sanborn Map Report

Prose Manteca

1563 West Yosemite Avenue

Manteca, CA 95337

Inquiry Number: 6686940.3

October 01, 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

10/01/21

Site Name:

Prose Manteca
1563 West Yosemite Avenue
Manteca, CA 95337
EDR Inquiry # 6686940.3

Client Name:

Engeo Inc.
2010 Crow Canyon Place
San Ramon, CA 94583
Contact: Jenna Keith

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 # D9DE-4BA6-91AE

PO # P2021.005.705

Project Prose Manteca

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 #: D9DE-4BA6-91AE

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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APPENDIX F

ENVIRONMENTAL DATA RESOURCES, INC.

City Directory

Prose Manteca
1563 W Yosemite Ave
Manteca, CA 95337

Inquiry Number: 6686940.5
October 06, 2021

The EDR-City Directory Image Report

Environmental Data Resources Inc
6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

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
1978	☑	☐	POLK DIRECTORY CO
1973	☑	☐	POLK DIRECTORY CO
1968	☑	☐	POLK DIRECTORY CO

FINDINGS

TARGET PROPERTY STREET

1563 W Yosemite Ave
Manteca, CA 95337

Year	*CD Image*	*Source*
W YOSEMITE AVE		
2017	pg A4	EDR Digital Archive
2014	pg A8	EDR Digital Archive
2010	pg A12	EDR Digital Archive
2005	pg A14	EDR Digital Archive
2000	pg A17	EDR Digital Archive
1995	pg A20	EDR Digital Archive
1992	pg A23	EDR Digital Archive
1985	pg A25	Haines Criss-Cross Directory
1981	pg A27	Haines Criss-Cross Directory
1978	pg A28	POLK DIRECTORY CO
1978	pg A29	POLK DIRECTORY CO
1973	pg A30	POLK DIRECTORY CO
1968	pg A31	POLK DIRECTORY CO

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
AIRPORT WAY S			
1992	pg. A21	EDR Digital Archive	
S AIRPORT WAY			
2017	pg. A2	EDR Digital Archive	
2014	pg. A6	EDR Digital Archive	
2010	pg. A10	EDR Digital Archive	
2005	pg. A13	EDR Digital Archive	
2000	pg. A16	EDR Digital Archive	
1995	pg. A18	EDR Digital Archive	
1992	pg. A22	EDR Digital Archive	
1985	pg. A24	Haines Criss-Cross Directory	
1981	pg. A26	Haines Criss-Cross Directory	
1978	-	POLK DIRECTORY CO	Target and Adjoining not listed in Source
1973	-	POLK DIRECTORY CO	Target and Adjoining not listed in Source
1968	-	POLK DIRECTORY CO	Target and Adjoining not listed in Source
S AIRPORT WY			
1995	pg. A19	EDR Digital Archive	

City Directory Images

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2017

220	PRIMERA ASAMBLEA DE DIOS
223	POTEET, HATTIE B
	T & A PAINTING COMPANY INC
248	MONKEYS AUTO & RV SERVICE
255	RODRIGUEZ, RAUL J
264	ARMSTRONG, ANN M
310	MURPHY, JUAN J
313	HERNANDEZ, NICOLAS
329	ATKINSON, DEBRA K
334	GONZALES, ISABEL
336	DELOERA, LUCIANO
338	BERNABE, GUADALUPE
358	DELGADO, RICHARD C
375	RIORDAN, JEFFREY L
384	UECKER, LONNIE R
437	NAZZISI, ANTHONY S
444	MARQUEZ, LUCIA
	MARQUEZ, VARGAS L
468	JERMANON, DEBRA
483	VARGAS, RAMIREZ A
527	HARTLEY, ROGER
	LOONEYS
	LOONEYS 24HR TOW
626	THOMAS, KRIS
687	DURHAM, SUSAN J
693	BANZON, LITO N
700	ARROYO, HUMBERTO H
	MENDIOLA, VERONICA
724	CALDWELL, BOBBY L
739	HALYDAY, APRIL L
828	MCLARTY, MILDRED
863	HAMILTON, BRIAN A
917	GIBSON MANUFACTURING INC
923	CABINETS E & C
950	SINGH, SATVINDER K
955	CLAUSER, ROMAN
957	CLAUSER, ROBERT
1009	RAMSEY, GINA K
1050	PRIME SHINE
1069	LEANDRO, JOHN M
1083	LOPEZ, JESSICA
1450	HACK, JOSHUA
1620	ZAMORA, DAISY
1652	VANKIRK, RICHARD G
9542	OASIS MARKET & PRODUCE
9673	AYALA, LUIS
9676	GUZMAN, JOSE
9714	SUAREZ, ANATOLIO
9862	GALLEGOS, GERARDO
9904	MEEKER, DARRELL L

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2017 (Cont'd)

9920 COX, CLIFTON B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2017

1411	AARONS
1412	MIDAS
1431	MANTECA GARAGE EXPERTS LLC
	REDBOX
	SAVE MART
	SAVE MART SUPERMARKETS
1434	JRS LOCKSMITH
	TOWERMART 886
1451	SMOKE CITY GIFTS & MORE
1453	ADVANCE AMERICA CASH ADVANCE
1455	JUNGLE RED BEAUTY SUPPLY & SALON
	MANTECA GARAGE DOORS LLC
1457	NEW CHINA RESTAURANTS
1460	SAKANA JAPANESE BISTRO
1462	209 SMOKE SHOP
	XAVIERS VIDEOS Y MUSICA
1464	SHOOTERS WINGS & THINGS
1471	COUNTRY SKILLETS
1473	UNIVERSAL INVESTMENTS
1475	LA ORCHID NAIL SPA
	MM INVESTMENT LLC
	SECURE LOCK & KEY
1477	GOODWILL
1491	SPRINGLEAF FINANCIAL SERVICES
1497	JOHN FILIPPINI DC
	STONE CHIROPRACTIC
1499	CAFE AROMA
1507	BONNIE J MOREHEAD DDS
	CICCARELLI RUDY R DDS
	DAMAN P SAINI DDS
	ELIZABETH GRECCO DDS
	FARRA MOHAMMAD EL DDS
	GRECCO ELIZABETH DDS
	HOCHHALTER MARK A DDS
	J C DENTAL CERAMICS
	JOSEPH RON DDS
	MARK A GRECCO DMD
	MARK A HOCHHALTER DDS
	MARVIN R BLEDSOE DDS
	MOREHEAD BONNIE J DDS
	PRACHI D SHAH DDS
	RON JOSEPH DDS
	RUDY R CICCARELLI DDS
	SAINI DAMAN P DDS
	SAINI HARNEET K DDS
	SHAFFER ADAM DDS DDS
	VALLEY OAK DENTAL
	VALLEY OAK DENTAL GROUP
1509	AFLAC
	EL RASHEED KHALIFA DDS MS

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2017 (Cont'd)

1509	KHALIFA RASHEED DDS MS INC
	SALES OFFIC REGIONAL E
	STATE FARM INSURANCE
1511	MARK A GRECCO DMD
1512	NORCAL MUFFLER & TRUCK
1515	ANIMAL CLINIC
	CENTRAL VALLEY VETERINARY HOSPITAL
1519	GOLDEN BEAR PHYSICAL THERAPY & SPO
1540	SECURED SELF STORAGE
1580	LAS CASUELAS
1600	ASHOK N VEERANKI DDS
1610	MEHRDAD AMIRHAMZEH MD
	MEHRDAD MD AMIRHAMZEH FACS FACC
	TRANG DDS DUONG MS
	YELLOWPAGESCOM
1620	COUNCIL OF THE SPANISH SPEAKING
	DAVITA
1630	CANZANO, JOHN
	HAROLD HAND MD
	JOHN C CANZANO MD
	RICHARD M WONG MD
	ZEITER EYE MEDICAL GROUP INC
1640	JT2 INTEGRATED RESOURCES
1650	DAVITA
1660	RLC ASSOCIATES
	SLEEPMED
1721	KAISER PERMANENTE
1777	KAISER PERMANENTE
	ST JOSEPHS BEHAVIORAL HEALTH CENTE
1783	STATE OF CALIFORNIA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2014

220	PRIMERA ASAMBLEA DE DIOS
223	NAVARRETE, MARIA
	T & A PAINTING COMPANY INC
248	MONKEYS AUTO & RV SERVCE
252	OCCUPANT UNKNOWN,
255	RODRIGUEZ, KIMBERLY
264	ARMSTRONG, ANN M
273	BRAY, DONNA J
290	OCCUPANT UNKNOWN,
310	HEBERT, DAVID
313	OCCUPANT UNKNOWN,
329	OCCUPANT UNKNOWN,
334	GONZALES, ISABEL
336	DELOERA, LUCIANO
338	VILLALOBOS, MANUEL
358	OCCUPANT UNKNOWN,
361	OCCUPANT UNKNOWN,
362	UECKER, LONNIE R
363	OCCUPANT UNKNOWN,
375	RIORDAN, JEFFREY L
380	OCCUPANT UNKNOWN,
400	MARTINEZ, JESUS
422	ROBLES, IRMA L
437	KAILEY, JAGMOHAN S
444	MARQUEZ, LUCIA
	OCCUPANT UNKNOWN,
	VARGAS, LUCIA
	YOUNG, ALICIA C
450	SANCHEZ, VINCENTE
468	JERMANON, DEBRA
483	VARGAS, RAMIREZ A
490	OCCUPANT UNKNOWN,
527	HARTLEY, ROGER
	LOONEYS 24 HOUR TOW
	LOONEYS 24HR TOW
564	HACKER, KEN
566	OCCUPANT UNKNOWN,
579	BROCKMEIER, CARRIE E
580	MANZANERO, ROSARIO
625	MUNOZ, VICTORIA
626	THOMAS, KRIS
687	JOHN, WILLIAM M
693	OCCUPANT UNKNOWN,
700	ALVAREZ, LUIS
	SOTO, VICTOR
721	DHILLON, TANVIR S
724	OCCUPANT UNKNOWN,
739	HALYDAY, APRIL L
794	OCCUPANT UNKNOWN,
828	KRILETICH, MARTY

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2014 (Cont'd)

863	HAMILTON, BRIAN A
892	ALEJANDRO, ISAAC N
917	GIBSON MANUFACTURING
923	CABINETS E & C
926	TELLES, KEVIN A
950	SINGH, SATVINDER K
955	CLAUSER, ROMAN
957	CLAUSER, ROBERT
959	OCCUPANT UNKNOWN,
1009	LEANDRO, JOHN M
1050	FILBURN, T
1069	OCCUPANT UNKNOWN,
1083	GOUKER, RICHARD
1450	HACK, JOSHUA
1620	RAYA, MARISSA A
1652	VANKIRK, RICHARD G
1688	OCCUPANT UNKNOWN,
9542	OASIS MARKET & PRODUCE
9663	BAYSINGER, KOURTNEY
9673	OCCUPANT UNKNOWN,
9676	OCCUPANT UNKNOWN,
9714	SUAREZ, ANATOLIO
9828	OCCUPANT UNKNOWN,
9862	GALLEGOS, GERARDO
9904	OCCUPANT UNKNOWN,
9920	COX, CLIFTON B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2014

1411	AARONS
1412	MANTECA MIDAS
1431	SAVE MART BAKERY
	SAVE MART SUPERMARKETS
	UNION BANK
1434	EXXON FOOD MART
1451	SMOKE CITY GIFTS & MORE
1453	ADVANCE AMERICA CASH ADVANCE
1455	JUNGLE RED BEAUTY SUPPLY & SALON
1457	NEW CHINA RESTAURANTS
1460	SAKANA JAPANESE BISTRO
1462	LAUNDERLAND
	XAVIERS VIDEOS Y MUSICA
1464	LEONARD PHOTOGRAPHY
	SHOOTERS WINGS & THINGS
1471	COUNTRY SKILLETS
1473	GO WIRELESS
	UNIVERSAL INVESTMENTS
1475	LA ORCHID NAIL SPA
1477	GOODWILL
1491	SPRINGLEAF FINANCIAL SERVICES
1497	STONE CHIROPRACTIC
1499	CAFE AROMA
1507	BLEDSOE MARVIN R DDS
	CICCARELLI RUDY R DDS
	EL FARRA MOHAMMAD Y DDS
	GRECCO ELIZABETH DDS
	GRECCO MARK A DMD
	HOCHHALTER MARK A DDS
	J C DENTAL CERAMICS
	JOSEPH RON DDS
	MOREHEAD BONNIE J DDS
	SAINI DAMAN P DDS
	SAINI HARNEET C DDS
	VALLEY OAK DENTAL GROUP
1509	AFLAC
	JACOB NAVEN STATE FARM INSURANCE A
	KHALIFA RASHEED DDS MS INC
	NAVEN COMPANY THE
	PRIMERICA
	STATE FARM INSURANCE
1511	GRECCO MARK A DMD
1512	NORCAL MUFFLER & TRUCK
	NORCAL MUFFLER & TRUCK INC
1515	ANIMAL CLINIC
	CENTRAL VALLEY VETERINARY HOSPITAL
1540	SECURED SELF STORAGE
1580	LAS CASUELAS
1600	RHODE TIM
	VEERANKI ASHOK DDS INC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2014 (Cont'd)

1610	AMIRHAMZEH MEHRDAD MD FACS FACC
1620	COUNCIL OF THE SPANISH SPEAKING
1625	OCCUPANT UNKNOWN,
1630	ZEITER EYE MEDICAL GROUP INC
1640	JT2 INTEGRATED RESOURCES
1650	DAVITA YOSEMITE AVENUE DIALYSIS CENT
1660	RLC ASSOCIATES
	SLEEPMED
	TRAVEL BY CHARLIE
1674	RHODES, RICHARD E
1721	KAISER FOUNDATION HEALTH PLAN
	KAISER PERMANENTE MANTECA MEDICAL OF
1777	KAISER FOUNDATION HOSPITAL MANTECA
	SAINT JOSEPHS BEHAVIORAL HEALTH CEN
	ST JOSEPHS BEHAVIORAL HEALTH CENTE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2010

223	OCCUPANT UNKNOWN,
	T & A PAINTING CO INC
252	HANSEN, RICHARD L
255	OCCUPANT UNKNOWN,
264	HERNANDEZ, ALICIA
273	OCCUPANT UNKNOWN,
290	REYNOLDS, DONNA
310	TERWILLEGER, ALYSA
313	QUINN, MICHAEL T
334	FELICANO, ANDREA
336	VALENZUELA, LUIS R
338	ROSALES, NINFA
358	RUBIO, MANUEL
361	OCCUPANT UNKNOWN,
362	NEATEROUS, VERONICA
363	CIERO, CHRIS
375	RIORDAN, JEFFREY L
380	OCCUPANT UNKNOWN,
400	FELAND, R C
401	NORTHSTAR PROGRAMS
437	NAZZISI, ANTHONY
444	CROUCH, ANDREW
	OCCUPANT UNKNOWN,
	YOUNG, ALICIA L
450	JERMANON, DEBRA
468	GOAD, STAR
483	VARGAS, RAMIREZ A
490	RAMOS, RAFAEL
527	LOONEYS 24 HOUR TOW
	OCCUPANT UNKNOWN,
566	ROWTON, KELLY L
580	OCCUPANT UNKNOWN,
625	OCCUPANT UNKNOWN,
626	OCCUPANT UNKNOWN,
687	NAGY, ADAM V
700	TORRES, FELIX J
721	CORTEZ, ENRIQUE
724	OCCUPANT UNKNOWN,
739	RIFE, MISTY M
794	OCCUPANT UNKNOWN,
828	NANNA, JOEY
863	HAMILTON, BRIAN K
892	SAND, ASHLEY
917	GIBSON MANUFACTURING INC
926	WILLIAMS, DAVEEN R
955	CLAUSER, ROMAN
957	OCCUPANT UNKNOWN,
959	OCCUPANT UNKNOWN,
1009	LEANDRO, JOHN M
1050	EGGMAN, ELZNER R

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2010 (Cont'd)

1069 OCCUPANT UNKNOWN,
1083 MILLS, KIM
1276 RODRIGUEZ, MARIA L
1450 HACK, JOSHUA
1620 OCCUPANT UNKNOWN,
1632 DUTRA, ANTHONY G
1652 OCCUPANT UNKNOWN,
9542 KHANSHALI, YASIR
OASIS MARKET & PRODUCE
9663 LARIOS, HERMINIO M
9673 MUNGUIA, OSCAR R
9676 TRIPLETT, RICHARD
9714 SUAREZ, ANATOLIO
9828 CORNEJO, LUCIANO
9862 GALLEGOS, GERARDO
9904 MEEKER, DARRELL L
9920 COX, CLIFTON B

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2010

1411	HOLLYWOOD VIDEO
1412	MIDAS AUTO SVC EXPERTS
1431	SAVE MART
	UNION BANK
1434	EXXON FOOD MART
1453	ADVANCE AMERICA
1455	JUNGLE RED BEAUTY SUPPLYSALON
1457	NEW CHINA RESTAURANT
1460	SUN KWONG BUFFET
1462	LAUNDERLAND
	XAVIERS VIDEOS Y MUSICA
1465	CARLS JR
1471	DEVINCIS DELICATESSEN
1473	OASIS PURE WATER
1477	GOODWILL
1491	AMERICAN GENERAL FINANCE
1497	STONE CHIROPRACTIC
1499	CAFE AROMA
1507	J C DENTAL CERAMICS
	VALLEY OAK DENTAL GROUP INC
1509	MICHAEL R MATSON INC
	STATE FARM INSURANCE
1511	GRECCO MARK A DDS
	GRECCO, MARK
1512	NORCAL MUFFLER & TRUCK
1515	ANIMAL REFERRAL CTR
	CENTRAL VALLEY VETERINARY HOSP
1540	SECURED SELF STORAGE
1580	LA CASUELAS
1586	UNCLE CREDIT UNION
1600	PMZ RHODE REAL ESTATE
1620	EL CONCILIO CALWORKS
1625	MCCONNIEL, WILLIAM C
1650	DA VITA YOSEMITE AVENUE DLYSS
1660	RLC ASSOCIATE
	SLEEP MED OF CALIFORNIA
	TRAVEL BY CHARLIE
1674	KEPPEL, JOSHUA
1721	KAISER PERMANENTE
	KAISER PERMANENTE HEALTH PLAN
	SOUTHWICK DENISE D
	WILSON NICOLE L
1777	CALDWELL GREGORY R
	CHANG THOMAS M MD
	KAISER PERMANENTE
	LI YANYAN MD
	MERGES DANIEL F MD
	WONG SHARON W MD
1779	GAMBHIR ANITA R MD
	KAISER PERMANENTE

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2005

220	PRIMERA ASAMBLEA DE DIOS
248	MONKEYS RV & AUTO SERVICE
527	BUDGET TOWING
579	ROWTON, KELLY L
687	NATHAN, JOHN
739	HALYDAY, JACQUELINE V
863	HAMILTON, BRIAN K
923	ULTRAIMAGING SYSTEMS INC
955	OCCUPANT UNKNOWN,
957	JOHNSTON, JENIFER
959	OCCUPANT UNKNOWN,
1050	EGGMAN, ELZNER R
1069	LEANDRO, JOHN M
1083	FLICK, TAMI
1100	OCCUPANT UNKNOWN,
1115	ANDERSON, ALISA
1127	DUDLEY, DANIEL
1450	RAINWATER, ANDREYA
1620	GARCIA, MARIA J
1626	COBARRUBIA, MARIA G
1632	DUTRA, ANTHONY G
9542	KHANSHALI, YASIR
	SAMS FRUIT STAND
9663	OCCUPANT UNKNOWN,
9673	RODRIGUEZ, ELOISA
9676	TRIPLETT, RICHARD
9714	SILVA, TERESA
9828	SALGADO, RICARDO
9862	GODIN, ALEX
9904	MEEKER, DARRELL L

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2005

1405	SUPER BUFFET
1411	HOLLYWOOD VIDEO
1412	MIDAS
	MIDAS AUTO SERVICE EXPERTS
	PHOENIX HOLDINGS INC
1415	TOP FASHIONS
1434	JACK POT FOOD MART
	PS EXXON FOODMART
1451	CRESCENT JEWELERS
1453	ADVANCE AMERICA
	NATIONAL CASH ADVANCE
1455	JUNGLE RED BEAUTY SUPPLY & SALON
	JUNGLE RED SALON AND SPA BEAUTY SUPP
1457	NEW CHINA RESTAURANT
1460	SUN KWONG BUFFET
1462	LAUNDERLAND
	XAVIERS VIDEOS Y MUSICA
1464	PARADISE PIZZA
1491	AMERICAN GENERAL FINANCIAL SERVICES
1497	STONE CHIROPRACTIC
1499	CAFE AROMA
1507	GRECCO ELIZABETH DDS
	J C DENTAL CERAMICS
	MOREHEAD BONNIE J DDS
	SOLOMON JOSHUA DDS
1509	MATSON DR MICHAEL R DDS INC
	PRIMERICA FINANCIAL SERVICES INC
	STATE FARM / LISA MCKEOWN
1511	GRECCO, MARK
1515	ANIMAL REFERRAL CENTER
	CENTRAL VALLEY VETERINARY HOSPITAL I
	HART CAROL DVM
1519	CENTRAL VALLEY CHIROPRACTIC
	REDDING WAYNE M DC
1540	SECURED SELF STORAGE
	SECURED SELF STORATE
1625	MCCONNIEL, WILLIAM C
1674	KEPPEL, PAUL A
1721	KAISER PERMANENTE MANTECA PHARMACY
	MANTECA KAISER MEDICAL OFFICE
1777	KAISER FOUNDATION HOSPITAL
	SAINT DOMINIC S HOSP PHYSICAA THER
	ST JOSEPHS MANTECA
1779	EMANI VENKATA MD
	GOULD MEDICAL FOUNDATION
	MANTECA OPEN MRI
	PATEL, RAHUL
	PETER G LUND MD
	SAINT JOSEPHS MEDICAL ASSOCS
	WIN SANDRA MD

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2005 (Cont'd)

1783 EMPLOYMENT DEVELOPMENT DEPT
MANTECA WORKNET
1789 BOUCHARD LINDA MD
DANTO LAWRENCE A MD
FREYMAN DANIELSEN ANITA MFT
MAL, FLORINDA
MALLORCA FLORINDA G MD
MANTECA EYECARE ASSOCIATES
MARGUILES AARON G MD FACS
MARRAM DONALD R DPM
MARRAM, DONALD R
SOETH, ELIZABETH M
WIN, SANDRA
ZEITER EYE
ZEITER JOSEPH T MD

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 2000

1450	OCCUPANT UNKNOWN,
2088	OCCUPANT UNKNOWN,
9673	MUNGUIA, SUSANNA
9676	MORRIS, MOLLY L
9683	OLEA, ALICIA
9688	TRIPLETT, RICHARD
9714	QUINONEZ, DENISE J
9754	OCCUPANT UNKNOWN,
9828	ORNELLAS, RORY S
9862	ONEIL, FRAN M
9904	MEEKER, DARRELL
9920	MEEKER, DARRELL

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 2000

1411	UNION STATION VIDEO
1412	MIDAS MUFFLER & BRAKE SHOPS MANTECA
1415	MARTIAL ARTS AMERICA
1434	JACK POT FOOD MART
1453	ADVANCE AMERICA
	NATURES CORNER
1455	R & R BEAUTY SALON
1457	NEW CHINA
1460	SUN KWONG BUFFET
1462	LAUNDERLAND
1464	ROUND TABLE PIZZA
1465	CARLS JR
1491	AMERICAN GENERAL FINANCE INCORPORATED
1497	FILIPPINI JOHN DC
1507	BLEDSOE MARVIN R DDS PEDTRC DENTISTRY VALLEY OAK DENTAL
	CICCARELLI RUDY R DDS
	CLEVENGER STEVEN R DDS VALLEY OAK DENTAL GROUP
	FULLER NORMAN D III DDS PERIODONTAL SURGERY
	GRECCO MARK A DMD
	J C DENTAL CERAMICS
	TONN ELVERNE M DDS
	VALLEY OAK DENTAL GROUP
1509	MATSON MICHAEL R DDS INCORPORATED
1512	MUFFLER & BRAKE
	PETES MUFFLER & BRAKE
1515	ANIMAL REFERRAL CENTER
	CENTRAL VALLEY VETERINARY HOSPITAL INCORPORATED
	WENDT, VIRGIL A
1530	HARPER, VALARIE R
1777	HEALTHCARE CLINICAL LABORATORY
	ST DOMINICS HOSPITAL
1779	HEALTHCARE CLINICAL LABORATORY
1783	EMPLMNT DEVELOPMENT DEPARTMENT ADMNSTRV OFFICE
	SAN JOAQUIN COUNTY OF EMPLOYMENT & ECONOMIC DEVELOPMENT DEPA

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 1995

9542 OCCUPANT UNKNOWNN
9754 DOMINGO, TONY
9828 ORNELLAS, RORY S
9920 MEEKER, DARRELL

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WY 1995

2444 HAWORTH, LARRY A

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 1995

1411	QUALITY PET FOODS & SUPPLIES
1412	MIDAS MUFFLER SHOPS
1431	SAVE MART BAKE SHOP
1434	JACKPOT FOOD MART
	YOUNAN, F
1451	SPORTSLAND
1453	LOOKIN GOOD
1457	TRAVEL TRAVEL
1460	SUN KWONG BUFFET
1464	ROUND TABLE PIZZA
1465	CARLS JR RESTAURANT
1497	STONE CHIROPRACTIC GROUP
1499	DAVID A OFFUTT
1507	BONNIE J MOREHEAD DDS
	DENNIS R HOOVER DDS
	ELVERNE M TONN DDS
	J C DENTAL CERAMICS
	JOHN C TRUEB DDS
	MARK A GRECCO DDS
	MARK HOCHHALTER DDS
	MARVIN R BLEDSOE DDS
	NORMAN D FULLER III DDS
	RUDY CICCARELLI DDS
	VALLEY OAK DENTAL GROUP
1509	MICHAEL R MATSON DDS
1512	PETES MANTECA MUFFLER
1515	CENTRAL VALLEY VETERINARY HOSP
1765	ST DOMINICS PHARMACY
1777	DEVINDER K MAKKER MD
	DICK ALDRED
	DONALD R MARRAM DPM
	HOOMAN MADYOOM MD
	RAFAEL VICTORIA MD
	ST DOMINICS HEALTHCARE
	ST DOMINICS HOSPITAL
1779	HEALTHCARE CLINICAL LABORATORY
	LARS P ENEVOLDSEN MD
	PETER LUND MD
	SCOTT BRADLEY MD

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

AIRPORT WAY S 1992

3437 B P CHEMICALS INC
5000 SPINELLIS RSTRNT

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

S AIRPORT WAY 1992

250 OLIVERA, MARY A
2444 HAWORTH, LARRY A
9542 REDS PRODUCE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

W YOSEMITE AVE 1992

1411 QUALITY PET FD&SPLY
1412 MIDAS MUFFLER&BRAKE
1417 CLOTHES OUT
1431 SAVE MART 12 BK SHP
1434 JACK POT FOOD MART
1453 LOOKIN GOOD
1455 SUPER SUBS
1457 TRAVEL TRAVEL
1459 NUTRI SYSTEMS
1464 ROUND TABLE PIZZA
1465 CARLS JR
1491 WEST COAST VDO&ADO
1497 STONE CHIRO GROUP
1499 OFUTT DAVID A ATTY
1507 J C DENTAL CERAMICS
1509 MATSON M R DDS INC
1512 MUFFLER&BRAKE
1515 CENTRL VLY VET HOSP
FREY ANDREW J DVM
FREY, ANDREW J
1721 ACES CSTM AUTO SHOP
1765 ST DOMINICS PHAR
1777 BENAK, CAROL
D N H MEDICAL MNG
GONG RODNEY MD
HEALTHCARE CLINICAL
ST DOMINICS HSPTL
1779 BRADLEY SCOTT MD
LUND PETER MD

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

S AIRPORT WAY 1985

AIRPORT WAY S 95336
MANTECA

9542	XXXX	00
9673	ALCAZAR GREGORIO	982-1409 +S
9676	CORN CHAS A	982-0402
	KIMYON A	982-1396 +5
9754	DOMINGO TONY	982-1694
9828	CARDOZA JOHN G	982-1575
9862	XXXX	00
9904	MEEKER O&RRELL	982-1936
9920	COX C B REV	982-1023

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

W YOSEMITE AVE 1985

1200	WIENERSCHNITZEL	239-9798	1
1223	PERKOS KOFFEE KUP	823-1800	8
1231	GEORGES ASE LIQUORS	823-6405	+5
	HOUSE OF LIQUORS	823-6405	+5
1233	BODY SHOP THE	239-5783	+5
1235	R&R BEAUTY SUPPLY	239-5844	2
1237	NATURES CORNER	239-5355	2
1245	THRIFTY DRUGSDSCNT	823-1141	
1255	XXXX	00	
1257	WILLIAMS CHEVRON SV	823-6292	
1261	XXXX	00	
1265	GOLDEN UNICORN THE	239-3428	+5
1271	PRECISION 8 HAIR	239-5252	4
1281	RADIO SHACK	823-7424	6
1285	XXXX	00	
1315	XXXX	00	
1321	K MART STORE 9208	239-4300	4
	K MART STR 9208	239-9551	+5
1351	STRAW HAT PIZZA	623-1108	
1442	XXXX	00	
1480	XXXX	00	
1524	WAYNES AUTO REPAIR	235-2879	+5
1554	DAIWA AUTHORIZED SV	823-8348	2
	GAS MART	239-1792	+5
1601	XXXX	00	
1716	MANTECA MUFFLER	823-1208	
	PETES MANTECA MFFLR	823-1209	
4022	RIEGLE FAST FREIGHT	239-5613	+5
HQ #	BROWN MANIN INC	823-2194	

* 116 BUS 103 RES 38 NEW

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

S AIRPORT WAY 1981

AIRPORT WAY S 95336
MANTECA

9103	LEWIS WAYMON G	982-1991	8
	MILLER RAY	982-5123	8
9220	WATSON C C	982-5609	+1
	WATSON MELVIN A	982-1296	8
9234	JACKSON IRA W	982-4809	8
9542	XXXX	00	
9673	FELIX GEORGE	982-5190	+1
9676	CORN CHAS A	982-0402	
9754	DOMINGO TONY	982-1694	
9828	CARDOZA JOHN G	982-1575	
9904	MEEKER DARRELL	982-1939	2
9920	COX C B REV	982-1023	

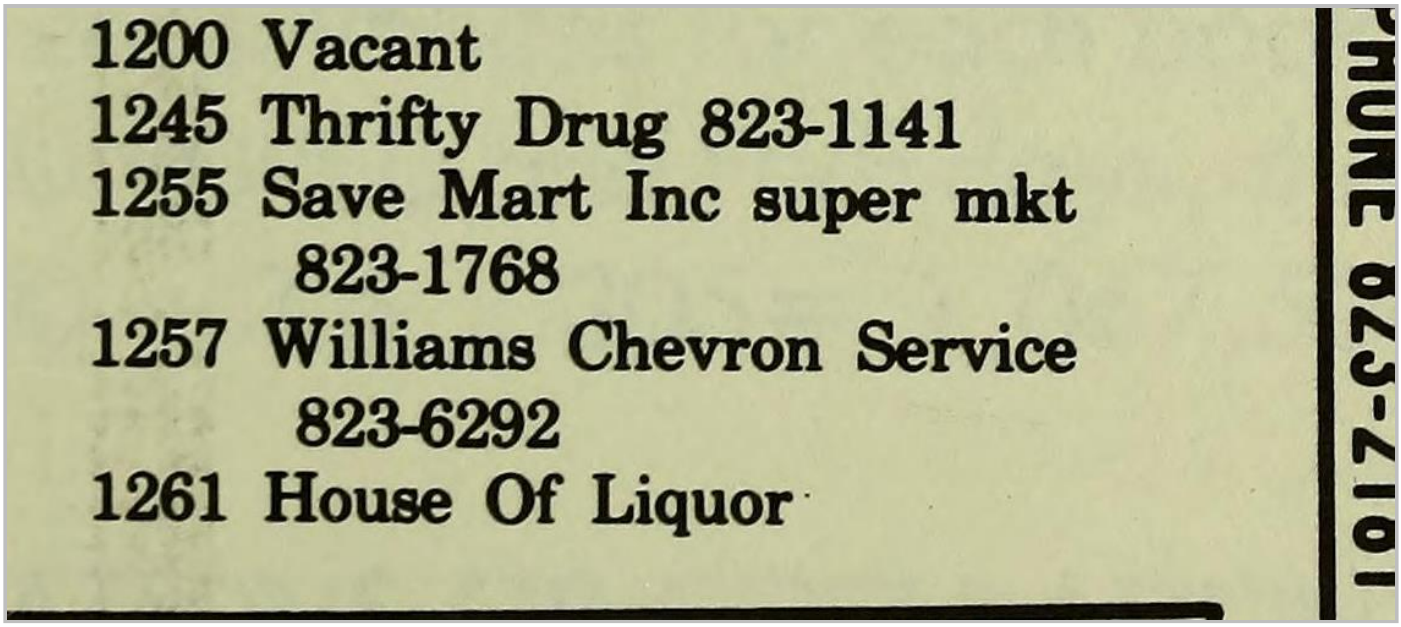
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

W YOSEMITE AVE 1981

1200	WIENERSCHNITZEL	239-9796	+1
1223	PERKOS KOFFEE KUP	823-1800	8
1231	XXXX	00	
1245	THRIFTY DRUG&DSCNT	823-1141	4
1255	XXXX	00	
1257	WILLIAMS CHEVRON SV	823-6292	5
1261	GEORGES HOUSE LQR	823-6405	5
	HOUSE OF LIQUORS	823-6405	6
1265	SERENDIPIST THE	239-3428	7
1271	REVELATION	239-2811	0
1281	RADIO SHACK	823-7424	6
1285	XXXX	00	
1315	XXXX	00	
1321	K MART STORE 9206	239-4250	8
	K MART STORE 9206	239-4300	8
1351	STRAW HAT PIZZA	823-1108	5
1442	XXXX	00	
1480	XXXX	00	
1524	ROY&SONS BODY SHOP	239-2060	+1
	ROY&SONS TRNSMSN SV	239-2060	9
1554	DELTA BAIT&TACKLE	823-8346	0
	DELTA FISH CO	823-8346	9
1601	XXXX	00	
1716	MANTECA MUFFLER	823-1209	
	PETES MANTECA MFFLR	823-1209	
1830	XXXX	00	
1901	CREAGHE O A	823-1502	9
	WRIGGLESWORTH T A	823-7832	8
NO #	BROWNMAHIN INC	823-2194	
★	118 BUS 111 RES	48 NEW	

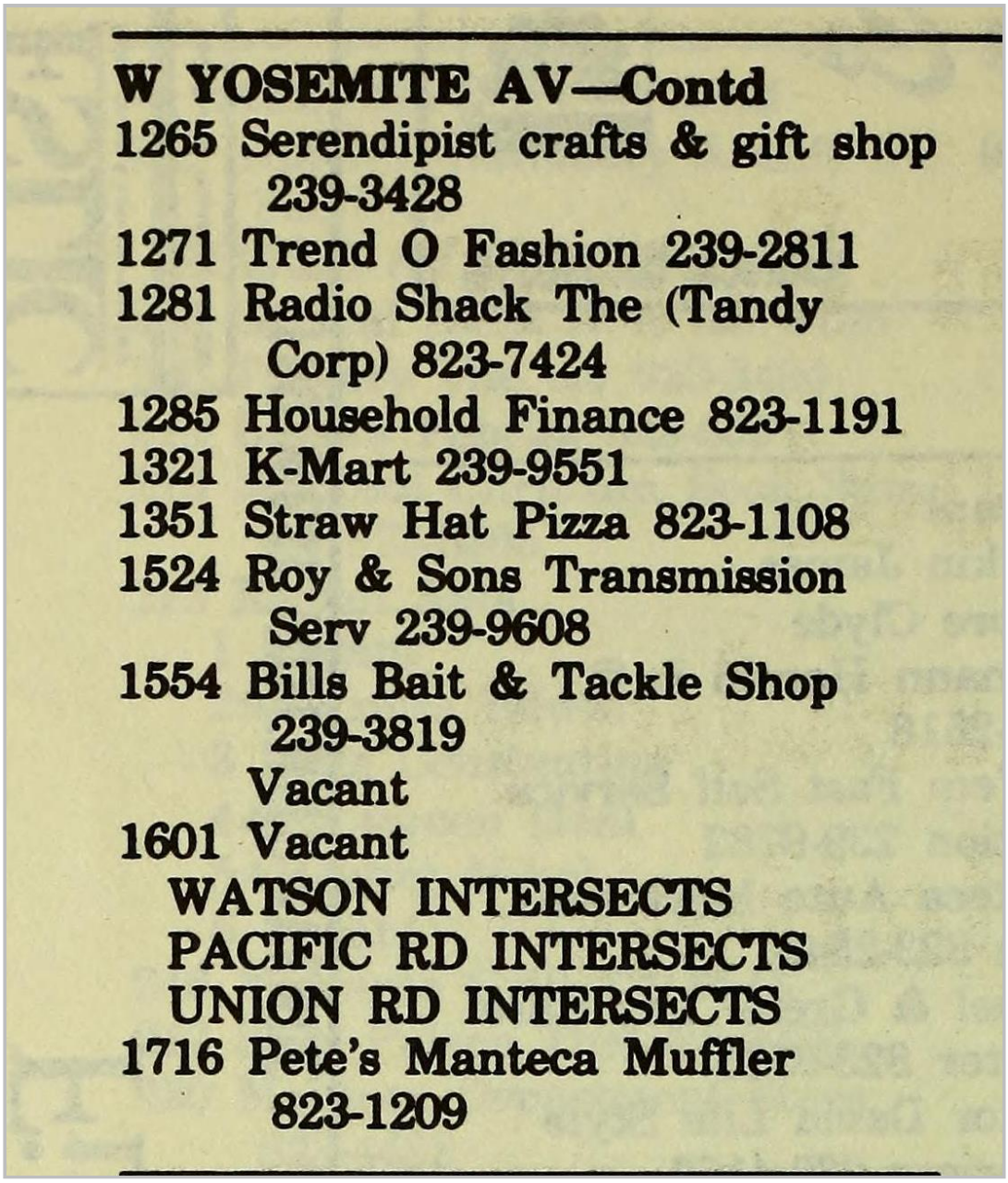
Target Street	Cross Street	Source
✓	-	POLK DIRECTORY CO

W YOSEMITE AVE 1978


1200 Vacant
1245 Thrifty Drug 823-1141
1255 Save Mart Inc super mkt
823-1768
1257 Williams Chevron Service
823-6292
1261 House Of Liquor

Target Street	Cross Street	Source
✓	-	POLK DIRECTORY CO

W YOSEMITE AVE 1978



W YOSEMITE AV—Contd

1265 Serendipist crafts & gift shop 239-3428
1271 Trend O Fashion 239-2811
1281 Radio Shack The (Tandy Corp) 823-7424
1285 Household Finance 823-1191
1321 K-Mart 239-9551
1351 Straw Hat Pizza 823-1108
1524 Roy & Sons Transmission Serv 239-9608
1554 Bills Bait & Tackle Shop 239-3819
Vacant
1601 Vacant
WATSON INTERSECTS
PACIFIC RD INTERSECTS
UNION RD INTERSECTS
1716 Pete's Manteca Muffler 823-1209

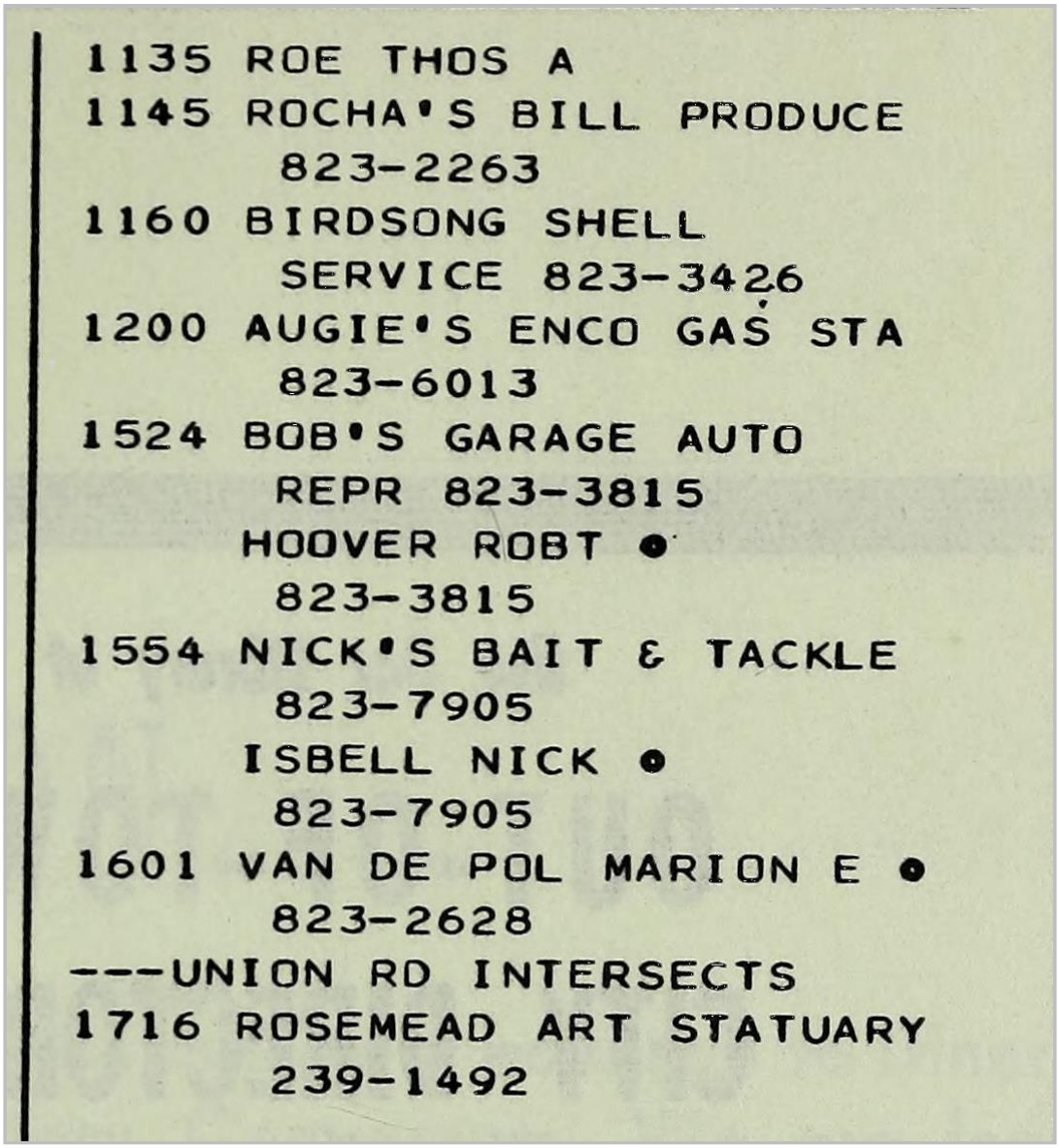
Target Street	Cross Street	Source
✓	-	POLK DIRECTORY CO

W YOSEMITE AVE 1973

1200 Al's Exxon 823-4041
1245 Thrifty Drug 823-1141
1255 Save Mart Inc super mkt
1257 Williams Chevron Service
823-6292
1261 Ernie's Liquors (Brenner
Ent) 823-6405
1265 In Shop The womens apparel
239-1087
1271 Trend O Fashion 239-2811
1281-5 Radio Shack The (Tandy
Corp) 823-1118
1285 Household Finance 823-1191
1321 Grant City 239-1347
1351 Straw Hat Pizza 823-1108
1480 ★ Kidwell Hargus
1524 Roy & Sons Auto Repair
239-9608
1554 Nick's Bait & Tackle Shop
823-3484
Isbell Nick
1601 Van De Pol Marion E ◎
823-2628
WATSON INTERSECTS
PACIFIC RD INTERSECTS
UNION RD INTERSECTS
1716 Pete's Manteca Muffler
823-1209

Target Street	Cross Street	Source
✓	-	POLK DIRECTORY CO

W YOSEMITE AVE 1968



1135 ROE THOS A
1145 ROCHA'S BILL PRODUCE
823-2263
1160 BIRDSONG SHELL
SERVICE 823-3426
1200 AUGIE'S ENCO GAS STA
823-6013
1524 BOB'S GARAGE AUTO
REPR 823-3815
HOOVER ROBT ●
823-3815
1554 NICK'S BAIT & TACKLE
823-7905
ISBELL NICK ●
823-7905
1601 VAN DE POL MARION E ●
823-2628
---UNION RD INTERSECTS
1716 ROSEMEAD ART STATUARY
239-1492



APPENDIX G

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRES (2)

ENGEO
Expect Excellence

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE FOR CLIENT

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be completed by the user of the phase one environmental site assessment, or their authorized representative.

PART I

1. Property address and Assessor's Parcel Number (APN):

   APN: 200-150-260 and 200-150-270

2. Current property owner (name, address, voice/fax number):

   The Brocchini Family Partnership, a California limited partnership

3. Date current property owner assumed title of property:

   January 31, 1997

4. Current property development/improvements:

   None

5. Past property use, development/improvements:

   None

6. Neighboring property uses:

   West: Hospital
   North: Drainage and Golf Course
   East: Multifamily Apartments and Retail Uses
   South: Yosemite Avenue

PART II

1. Are you aware of any environmental cleanup liens against the *property* that are filed under federal, tribal, local or state law?	☐ Yes	☑ No	
2. Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the property and/or have been filed or recorded in a registry under federal, tribal, state or local law?	☐ Yes	☑ No	
3. Do you have any specialized knowledge or experience related to the *property* or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the *property* or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?	☐ Yes	☑ No	
4. If a property transaction is occurring in conjunction with this environmental assessment, does the purchase price of this *property* reasonably reflect the fair market value of the *property*?	☑ Yes	☐ No	
5. If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the *property*?	☐ Yes	☑ No	☐ N/A
6. Are you aware of any commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, (a) do you know of specific chemicals that are present or once were present at the *property*? (b) do you know of spills or other chemical releases that have taken place at the *property*? (c) do you know of any environmental cleanups that have taken place at the *property*?	☐ Yes	☑ No	
7. Based on your knowledge and experience related to the *property* are there any obvious indicators that point to the presence or likely presence of contamination at the *property*?	☐ Yes	☑ No	

If a "Yes" response was provided to any of the above questions, please provide details below:

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Lori Mackey, Vice-President, Brocchini Management Corp, Gen. partner of Brocchini Family Partnership

Signature: Lori Mackey Date: November 3, 2021

ENGEO
Expect Excellence

ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE
FOR KEY SITE MANAGER

To evaluate the potential for possible environmentally related impacts and site contamination the following information is requested. This questionnaire is to be preferably completed by the current property owner, or owner representative, leasing agent, or other person having good knowledge of the uses and physical characteristics of the property (Key Site Manager).

PART I

1. Property Address/Location and Assessor's Parcel Number (APN):

   1563 and 1625 W. Yosemite Avenue
   Manteca, CA 95337
   APN: 200-150-260 and 200-150-270

2. Current property owner (name, address, voice/fax number):

   Brocchini Family Partnership, a California limited partnership

3. Date current property owner assumed title of property:

   January 31, 1997

4. Current property development/improvements:

   None

5. Past property use, development/improvements:

   None

6. Neighboring property uses:

   West: Hospital
   North: Drainage and Golf Course
   East: Multifamily Apartments and Retail Uses
   South: Yosemite Avenue

PART II - The following questions should be answered to the best of your knowledge.

1. Is/has the *property* or any adjoining property used/been used for industrial purposes?	☐ Yes	☑ No
2. Has the *property* or any adjoining property been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	☐ Yes	☑ No
3. Are there currently, or have there been previously, any damaged or discarded automotive or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal in volume or 50 gal in the aggregate, stored on or used at the *property* or at the facility?	☐ Yes	☑ No
4. Has undocumented soil been brought onto the property at any time? If yes, estimated quantity is _____ cubic yards.	☐ Yes	☑ No
5. Has soil been brought onto the property that originated from a contaminated site or that is of an unknown origin?	☐ Yes	☑ No
6. Are there currently, or have there been previously, any pits, ponds, or lagoons located on the *property* in connection with waste treatment or waste disposal?	☐ Yes	☑ No
7. Is there currently, or has there been previously, any stained soil on the *property*?	☐ Yes	☑ No
8. Are there currently, or have there been previously, any registered or unregistered storage tanks (above or underground) located on the *property*?	☐ Yes	☑ No
9. Are there currently, or have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the *property* or adjacent to any structure located on the *property*?	☐ Yes	☑ No
10. Are there currently, or have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	☐ Yes	☑ No
11. Are there any domestic, irrigation or monitoring wells on the property?	☐ Yes	☑ No
12. If the *property* is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated as contaminated by any government environmental/health agency?	☐ Yes	☑ No
13. Have you been informed of the past or current existence of *hazardous substances* or *petroleum products* or environmental violations with respect to the *property* or any facility located on the *property*?	☐ Yes	☑ No
14. Have there been any *environmental site assessments* of the *property* or facility that indicated the presence of *hazardous substances* or *petroleum products* on, or contamination of, the *property* or recommended further assessment of the *property*?	☐ Yes	☑ No
15. Have there been any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any *hazardous substance* or *petroleum products* involving the *property*?	☐ Yes	☑ No
16. Has there been any past agricultural use of the *property*, such as orchards or seed crop cultivation?	☐ Yes	☑ No
17. Have any *hazardous substances* or *petroleum products*, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the *property*?	☐ Yes	☑ No
18. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCBs?	☐ Yes	☑ No

If a "Yes" response was provided to any of the above questions, please provide details below:

I certify that the information herein is true and correct to the best of my knowledge as of the date signed below.

Name (Printed/Typed): Lori Mackey, Vice-President, Brocchini Management Corp, Gen. partner of Brocchini Family Partners

Signature: Lori Mackey Date: 11/3/2021



APPENDIX H

CALIFORNIA LABORATORY SERVICES

Analytical Data

CALIFORNIA LABORATORY SERVICES
Committed. Responsive. Flexible.

November 29, 2021

CLS Work Order #: 21K1147
COC #:

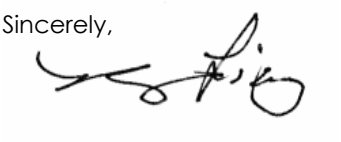
Monica Kunzel
Engeo- San Ramon
2010 Crow Canyon Pl. suite 250
San Ramon, CA 94583

Project Name: Prose Manteca

Enclosed are the results of analyses for samples received by the laboratory on 11/18/21 16:40. 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

21K1147

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
12618.001.001	Prose Manteca

SAMPLED BY: (SIGNATURE/PRINT)
Cody Johnson

PROJECT MANAGER: (SIGNATURE/PRINT)
Monica Kunzel

ROUTING: E-MAIL cjohnson@engeo.com mkunzel@engeo.com

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	OCPs (8081)	Pb/As (6020)	REMARKS / REQUIRED DETECTION LIMITS
1-S1	11/17/2021	8:00	soil	1	4oz jar	ice		x	
1-S2	11/17/2021	8:05	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S3	11/17/2021	8:10	soil	1	4oz jar	ice			discrete Pb and As
1-S4	11/17/2021	8:15	soil	1	4oz jar	ice			
1-S5	11/17/2021	8:20	soil	1	4oz jar	ice		x	
1-S6	11/17/2021	8:25	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S7	11/17/2021	8:30	soil	1	4oz jar	ice			discrete Pb and As
1-S8	11/17/2021	8:35	soil	1	4oz jar	ice			
1-S9	11/17/2021	8:40	soil	1	4oz jar	ice		x	
1-S10	11/17/2021	8:45	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S11	11/17/2021	8:50	soil	1	4oz jar	ice			discrete Pb and As
1-S12	11/17/2021	8:55	soil	1	4oz jar	ice			
1-S13	11/17/2021	9:00	soil	1	4oz jar	ice		x	
1-S14	11/17/2021	9:05	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S15	11/17/2021	9:10	soil	1	4oz jar	ice			discrete Pb and As
1-S16	11/17/2021	9:15	soil	1	4oz jar	ice			
1-S17	11/17/2021	9:20	soil	1	4oz jar	ice		x	
1-S18	11/17/2021	9:25	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S19	11/17/2021	9:30	soil	1	4oz jar	ice			discrete Pb and As
1-S20	11/17/2021	9:35	soil	1	4oz jar	ice			

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Cody Johnson	NOV 18/21 1420			NOV 18/21 1640	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
				11/18/21 1640	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNA	DATE/TIME	REMARKS	
				Standard TAT	4-1 4.8 to 7.

ENGEO INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEO.COM

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJECT FIELD FILES

21K1147

CHAIN OF CUSTODY RECORD

PROJECT NUMBER	PROJECT NAME
12618.001.001	Prose Manteca

SAMPLED BY: (SIGNATURE/PRINT)
Cody Johnson

PROJECT MANAGER: (SIGNATURE/PRINT)
Monica Kunzel

ROUTING: E-MAIL cjohnson@engeo.com mkunzel@engeo.com

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	OCPs (8081)	Pb/As (6020)	REMARKS / REQUIRED DETECTION LIMITS
1-S21	11/17/2021	9:40	soil	1	4oz jar	ice		x	
1-S22	11/17/2021	9:45	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S23	11/17/2021	9:50	soil	1	4oz jar	ice			discrete Pb and As
1-S24	11/17/2021	9:55	soil	1	4oz jar	ice			
1-S25	11/17/2021	10:00	soil	1	4oz jar	ice		x	
1-S26	11/17/2021	10:05	soil	1	4oz jar	ice	x		4:1 comp OCPs
1-S27	11/17/2021	10:10	soil	1	4oz jar	ice			discrete Pb and As
1-S28	11/17/2021	10:15	soil	1	4oz jar	ice			

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
Cody Johnson	11/18/21 1425			11/18/21 1640	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNA	DATE/TIME	REMARKS	
				Standard TAT	4.1/4.8 to.1

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJECT FIELD FILES

ENGEO INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEO.COM

Engeo- San Ramon	Project:	Prose Manteca
2010 Crow Canyon Pl. suite 250	Project Number:	12618.001.001
San Ramon, CA 94583	Project Manager:	Monica Kunzel

CLS Work Order #: 21K1147
COC #:

Metals by EPA 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S1 (21K1147-01) Soil Sampled: 11/17/21 08:00 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**5.1**	2.5	"	"	"	"	"	"	
1-S5 (21K1147-06) Soil Sampled: 11/17/21 08:20 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**3.3**	2.5	"	"	"	"	"	"	
1-S9 (21K1147-11) Soil Sampled: 11/17/21 08:40 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**2.6**	2.5	"	"	"	"	"	"	
1-S13 (21K1147-16) Soil Sampled: 11/17/21 09:00 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**4.0**	2.5	"	"	"	"	"	"	
1-S17 (21K1147-21) Soil Sampled: 11/17/21 09:20 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**4.4**	2.5	"	"	"	"	"	"	
1-S21 (21K1147-26) Soil Sampled: 11/17/21 09:40 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**3.8**	2.5	"	"	"	"	"	"	
1-S25 (21K1147-31) Soil Sampled: 11/17/21 10:00 Received: 11/18/21 16:40									
Arsenic	ND	2.0	mg/kg	10	2109796	11/23/21	11/23/21	EPA 6020	
Lead	**25**	2.5	"	"	"	"	"	"	

Engeo- San Ramon	Project:	Prose Manteca	
2010 Crow Canyon Pl. suite 250	Project Number:	12618.001.001	**CLS Work Order #: 21K1147**
San Ramon, CA 94583	Project Manager:	Monica Kunzel	COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S1 Thru 1-S4 (Comp) (21K1147-05) Soil Sampled: 11/17/21 08:00 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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		*74 %*	*46-139*		"	"	"	"	
1-S5 Thru 1-S8 (Comp) (21K1147-10) Soil Sampled: 11/17/21 08:20 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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- San Ramon	Project:	Prose Manteca	
2010 Crow Canyon Pl. suite 250	Project Number:	12618.001.001	**CLS Work Order #: 21K1147**
San Ramon, CA 94583	Project Manager:	Monica Kunzel	COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S5 Thru 1-S8 (Comp) (21K1147-10) Soil Sampled: 11/17/21 08:20 Received: 11/18/21 16:40									
Chlordane-technical	ND	3.3	µg/kg	1	2109792	"	11/23/21	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		*67 %*		*46-139*	"	"	"	"	
1-S9 Thru 1-S12 (Comp) (21K1147-15) Soil Sampled: 11/17/21 08:40 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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- San Ramon	Project:	Prose Manteca	
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San Ramon, CA 94583	Project Manager:	Monica Kunzel	COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S9 Thru 1-S12 (Comp) (21K1147-15) Soil Sampled: 11/17/21 08:40 Received: 11/18/21 16:40									
Endrin	ND	3.3	µg/kg	1	2109792	"	11/23/21	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		*70 %*	*52-141*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*60 %*	*46-139*		"	"	"	"	
1-S13 Thru 1-S16 (Comp) (21K1147-20) Soil Sampled: 11/17/21 09:00 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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- San Ramon	Project:	Prose Manteca	
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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S13 Thru 1-S16 (Comp) (21K1147-20) Soil Sampled: 11/17/21 09:00 Received: 11/18/21 16:40									
Mirex	ND	3.3	µg/kg	1	2109792	"	11/23/21	EPA 8081A	
Toxaphene	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*90 %*	*52-141*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*81 %*	*46-139*		"	"	"	"	
1-S17 Thru 1-S20 (Comp) (21K1147-25) Soil Sampled: 11/17/21 09:20 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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		*72 %*	*52-141*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*59 %*	*46-139*		"	"	"	"	

Engeo- San Ramon	Project:	Prose Manteca	
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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S21 Thru 1-S24 (Comp) (21K1147-30) Soil Sampled: 11/17/21 09:40 Received: 11/18/21 16:40									
4,4´-DDD	ND	3.3	µg/kg	1	2109792	11/23/21	11/23/21	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		*63 %*	*52-141*		"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*61 %*	*46-139*		"	"	"	"	
1-S25 Thru 1-S28 (Comp) (21K1147-35) Soil Sampled: 11/17/21 10:00 Received: 11/18/21 16:40									**QRL-8**
4,4´-DDD	ND	17	µg/kg	5	2109792	11/23/21	11/23/21	EPA 8081A	
4,4´-DDE	ND	17	"	"	"	"	"	"	
4,4´-DDT	ND	17	"	"	"	"	"	"	
Aldrin	ND	5.0	"	"	"	"	"	"	
alpha-BHC	ND	8.5	"	"	"	"	"	"	
beta-BHC	ND	8.5	"	"	"	"	"	"	

Engeo- San Ramon	Project:	Prose Manteca	
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Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1-S25 Thru 1-S28 (Comp) (21K1147-35) Soil	**Sampled: 11/17/21 10:00**		**Received: 11/18/21 16:40**						**QRL-8**
Chlordane-technical	ND	17	µg/kg	5	2109792	"	11/23/21	EPA 8081A	
delta-BHC	ND	8.5	"	"	"	"	"	"	
Dieldrin	ND	5.0	"	"	"	"	"	"	
Endosulfan I	ND	8.5	"	"	"	"	"	"	
Endosulfan II	ND	17	"	"	"	"	"	"	
Endosulfan sulfate	ND	17	"	"	"	"	"	"	
Endrin	ND	17	"	"	"	"	"	"	
Endrin aldehyde	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	8.5	"	"	"	"	"	"	
Heptachlor	ND	8.5	"	"	"	"	"	"	
Heptachlor epoxide	ND	8.5	"	"	"	"	"	"	
Methoxychlor	ND	85	"	"	"	"	"	"	
Mirex	ND	17	"	"	"	"	"	"	
Toxaphene	ND	100	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*82 %*		*52-141*	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*79 %*		*46-139*	"	"	"	"	

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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 2109796 - EPA 3050B										
Blank (2109796-BLK1)				Prepared & Analyzed: 11/23/21						
Lead	ND	0.25	mg/kg							
Arsenic	ND	0.20	"							
LCS (2109796-BS1)				Prepared & Analyzed: 11/23/21						
Lead	9.60	0.25	mg/kg	10.0		96.0	75-125			
Arsenic	8.62	0.20	"	10.0		86	75-125			
Matrix Spike (2109796-MS1)	**Source: 21K1144-01**			Prepared & Analyzed: 11/23/21						
Lead	18.7	2.5	mg/kg	10.0	9.20	94.8	75-125			
Arsenic	14.1	2.0	"	10.0	5.60	85	75-125			
Matrix Spike Dup (2109796-MSD1)	**Source: 21K1144-01**			Prepared & Analyzed: 11/23/21						
Lead	18.2	2.5	mg/kg	10.0	9.20	90.5	75-125	2.34	30	
Arsenic	13.8	2.0	"	10.0	5.60	82	75-125	2	30	

Engeo- San Ramon	Project:	Prose Manteca	
2010 Crow Canyon Pl. suite 250	Project Number:	12618.001.001	**CLS Work Order #: 21K1147**
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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 2109792 - LUFT-DHS GCNV										
Blank (2109792-BLK1)				Prepared & Analyzed: 11/23/21						
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	*8.98*		*"*	*8.33*		*108*	*46-139*			
Surrogate: Decachlorobiphenyl	*7.94*		*"*	*8.33*		*95*	*52-141*			
LCS (2109792-BS1)				Prepared & Analyzed: 11/23/21						
Aldrin	17.0	1.0	µg/kg	16.7		102	47-132			
gamma-BHC (Lindane)	17.1	1.7	"	16.7		103	56-133			
4,4´-DDT	17.2	3.3	"	16.7		103	46-137			
Dieldrin	17.6	1.0	"	16.7		106	44-143			
Endrin	17.5	3.3	"	16.7		105	30-147			
Heptachlor	16.7	1.7	"	16.7		100	33-148			
Surrogate: Tetrachloro-meta-xylene	*8.67*		*"*	*8.33*		*104*	*46-139*			

Engeo- San Ramon	Project:	Prose Manteca	
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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 2109792 - LUFT-DHS GCNV										
LCS (2109792-BS1)				Prepared & Analyzed: 11/23/21						
Surrogate: Decachlorobiphenyl	*8.37*		*µg/kg*	*8.33*		*100*	*52-141*			
LCS Dup (2109792-BSD1)				Prepared & Analyzed: 11/23/21						
Aldrin	16.7	1.0	µg/kg	16.7		100	47-132	2	30	
gamma-BHC (Lindane)	16.6	1.7	"	16.7		100	56-133	3	30	
4,4´-DDT	15.4	3.3	"	16.7		92	46-137	11	30	
Dieldrin	17.1	1.0	"	16.7		103	44-143	3	30	
Endrin	16.3	3.3	"	16.7		98	30-147	7	30	
Heptachlor	15.9	1.7	"	16.7		96	33-148	5	30	
Surrogate: Tetrachloro-meta-xylene	*8.69*		*"*	*8.33*		*104*	*46-139*			
Surrogate: Decachlorobiphenyl	*7.92*		*"*	*8.33*		*95*	*52-141*			
Matrix Spike (2109792-MS1)		**Source: 21K1125-63**		Prepared & Analyzed: 11/23/21						**QRL-8**
Aldrin	20.2	5.0	µg/kg	16.7	ND	121	47-138			
gamma-BHC (Lindane)	20.8	8.5	"	16.7	ND	125	38-144			
4,4´-DDT	22.2	17	"	16.7	ND	133	41-157			
Dieldrin	22.5	5.0	"	16.7	ND	135	46-155			
Endrin	23.9	17	"	16.7	ND	144	34-149			
Heptachlor	20.4	8.5	"	16.7	ND	122	36-155			
Surrogate: Tetrachloro-meta-xylene	*14.5*		*"*	*20.8*		*69*	*46-139*			
Surrogate: Decachlorobiphenyl	*19.7*		*"*	*20.8*		*95*	*52-141*			
Matrix Spike Dup (2109792-MSD1)		**Source: 21K1125-63**		Prepared & Analyzed: 11/23/21						**QRL-8**
Aldrin	22.8	5.0	µg/kg	16.7	ND	137	47-138	12	35	
gamma-BHC (Lindane)	24.2	8.5	"	16.7	ND	145	38-144	15	35	QM-7
4,4´-DDT	25.8	17	"	16.7	ND	155	41-157	15	35	
Dieldrin	26.7	5.0	"	16.7	ND	160	46-155	17	35	QM-7
Endrin	25.9	17	"	16.7	ND	155	34-149	8	35	QM-7
Heptachlor	23.4	8.5	"	16.7	ND	140	36-155	14	35	
Surrogate: Tetrachloro-meta-xylene	*17.2*		*"*	*20.8*		*83*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.4*		*"*	*20.8*		*113*	*52-141*			

Engeo- San Ramon	Project:	Prose Manteca	
2010 Crow Canyon Pl. suite 250	Project Number:	12618.001.001	**CLS Work Order #: 21K1147**
San Ramon, CA 94583	Project Manager:	Monica Kunzel	COC #:

Notes and Definitions

QRL-8	The extract of this sample was dark and/or oily. Therefore, the sample was analyzed with a dilution and the reporting limit was raised for all target compounds.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
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



APPENDIX I

QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL



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 University of Washington 2004

EXPERIENCE

Years with ENGEO: 22
Years with Other Firms: 0

REGISTRATIONS & CERTIFICATIONS

Environmental Manager, NV 2150

Professional Engineer, CA 69633

Envision ENV SP Credentialed

SPECIALIZATIONS

- Environmental Assessments, Characterization, and Remediation
- Green and Sustainable Remediation (GSR)
- Resilient and Sustainable Infrastructure
- Geologic Hazard Abatement Districts (GHADs)

AFFILIATIONS

ASCE American Society of Civil Engineers

ASCE Geo-Institute

GRA - Groundwater Resource Association

JEFFREY ADAMS, PHD, PE

Principal

Jeff joined ENGEO in 1999. He leads environmental assessment, characterization, remediation projects, and Geologic Hazard Abatement District (GHAD) formation. He has contributed to a wide range of remediation and development projects in high-density and low-density urban and suburban settings redeveloped for a variety of uses.

Jeff's research interests include green and sustainable remediation (GSR), resilient and sustainable infrastructure solutions, environmental applications, and emerging public/private financial mechanisms to mitigate flood-related losses. He has authored and co-authored numerous environmental remediation-related textbooks, instructional materials, and research papers that have been presented worldwide and published in a diverse group of academic and professional journals.

SELECT PROJECT EXPERIENCE

Howard Terminal—Oakland, CA
Lead Environmental Principal. Jeff has provided ongoing technical leadership during several environmental studies for the redevelopment of the Howard Terminal site. The approximately 62.1-acre Property is a former container terminal along the Port of Oakland's Inner Harbor. The Property was originally a bulk-break terminal dating back to the early 1900s, with a manufactured gas plant located in the eastern portion of the Property. The terminal was expanded and converted to a container terminal in the 1980s. Improvements will include a Major League Baseball stadium as well as mid-rise and high-rise buildings to provide a mix of residential, retail, and other commercial uses. ENGEO performed a Phase I Environmental Site Assessment (ESA), Phase II ESAs consisting of soil, soil gas, and groundwater sampling across the property, EIR preparation support, the preparation of a human health and ecological risk assessment (HHERA), and is developing a removal action work plan (RAW).

Google San Jose Downtown West—San Jose, CA
Project Manager. Jeff provided technical leadership and review for a comprehensive ESA for various industrial and commercial properties over approximately 50 acres in downtown San Jose considered for acquisition by Google. The purpose of the assessment was to identify known and unknown environmental concerns and recommended appropriate actions to quantify potential risks to inform due diligence efforts. The risk assessment utilized an innovative

Geographic Information System (GIS) digital interactive platform that provides additional data beyond typical environmental information and is scalable for future project plans.

The South Lathrop Commerce Center—Tracy, CA
Lead Environmental Principal. Jeff provided technical leadership and review for a Phase I ESA for the approximately 245-acre master-planned industrial development. The 4.2-million-square-foot development includes nine tilt-up concrete buildings, ranging in size from 282,000 square feet to over 1,000,000 square feet. Additional improvements for the logistics center include detention and retention basins, paved streets, parking, and drive lanes, a stormwater pump station and outfall, and a sewer lift station. Site development activities include grading operations, primarily consisting of minor cuts and fills, for individual pads and roadways, underground utility installation, pump station and outfall structure construction, flexible and rigid pavement construction, and vertical construction.

Crown Chevrolet Property—Dublin, CA
Project Manager. Jeff provided comprehensive environmental consultation services for the project. Working on behalf of the purchaser, Jeff collaborated with a multi-firm consulting team to characterize and mitigate environmental impacts resulting from previous on-site automotive maintenance activities and off-site businesses. Jeff designed and managed a site characterization program that definitively demonstrated that groundwater and soil gas impacts at the site were the result of off-site releases. He peer reviewed the design and implementation of a permeable reactive barrier (PRB), which serves to remediate an encroaching groundwater plume, as well as vapor intrusion mitigation systems for the site. He also completed a Phase I ESA for a remnant parcel subsequently developed for housing for veterans. The site consists of a multi-story commercial and residential apartment/condominium "transit village" complex.

3512 Clayton Road—Concord, CA
Lead Environmental Principal. Jeff provided technical leadership and review for a Brownfields redevelopment project in Concord. Following the Phase I and Phase II ESAs that identified soil and soil gas impacts, he assisted in the development of a remediation program that included a comprehensive pre-characterization program, accurately delineating soil impacts from past light-industrial uses and soil gas impacts from off-site businesses, allowing for accelerated field implementation. Following active soil remediation and post-remediation soil gas sampling, Jeff and the ENGEO team performed a vapor intrusion risk assessment that confirmed the site did not require long-term vapor mitigation systems. The site was granted case closure from the oversight regulatory agency within an accelerated review and approval timeframe. The project consists of a high-density residential development.

Blacow Road Project—Fremont, CA
Environmental Principal. Jeff has provided technical assistance for project remediation activities and prepared a Phase I ESA for site. The site is an active, open remediation site under the regulatory oversight of the San Francisco Bay Regional Water Quality Control Board (RWQCB). Impacts resulted from a variety of on-site and off-site commercial and industrial land uses dating back over 50 years. ENGEO has performed numerous characterization, remediation design, and monitoring services for the Site. Remediation activities are underway at the site to address groundwater and soil gas impacts from volatile organic compounds (VOCs) and petroleum hydrocarbons. The remediation approach consists of several remedial and mitigative technologies, including soil vapor extraction (SVE), in-situ enhanced bioremediation, and post-remediation vapor intrusion mitigation systems to be installed in future residential structures. The project consists of a residential development.

Eastvale 79—Eastvale, CA
*Environmental Principal***.** Jeff served in an Environmental Principal role for environmental studies at the site. ENGEO performed a Phase I ESA and a subsequent ESA update that included regulatory file reviews, interviews with property owners and regulatory agencies, a site reconnaissance, and preparation of a report documenting our findings. The approximately 16-acre site was historically associated with a portion of a dairy dating to at least 1967. During grading activities, a localized area of stained and odoriferous soil was observed in the southeast corner of the site. ENGEO coordinated and managed remediation efforts, confirmation sampling, and coordination with Riverside County DEH. Approximately 4,115 tons petroleum-impacted soil were removed and disposed. The DEH issued "No Further Action" status for the site.

Alameda Landing—Alameda, CA
Project Manager. Project Manager, Lead Environmental Principal. Jeff has provided comprehensive environmental consultation services for the Alameda Landing project. He has prepared and managed the completion of Phase I ESA and ESA Update studies for subunits of the greater project area. He directed 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. Additionally, he has prepared several Remedial Action Completion Reports (RACRs) of development phases to achieve regulatory case closure. The project consists of a multi-phased residential housing community built as part of a master-planned redevelopment of a former United States Navy facility.

VTA BART Silicon Valley Berryessa Extension Design-Build Project—San Jose, CA
Project Manager. As the lead project team member with respect to hazardous materials, Jeff provided a range of value engineering consulting services relating to existing soils, groundwater, and building materials. ENGEO provided a range of value engineering consulting services to address existing soils, hydrology resources, SWPPP, and building materials.

Following a complex right-of-way that extended through numerous developed areas and paralleled an existing rail line, the project generated hundreds of thousands of cubic yards of excavated soil with potential toxic and hazard concerns. The right-of-way intersected several groundwater plumes emanating from former industrial and commercial sources. Further, a number of structures in the project footprint harbored lead-based paint and asbestos-containing building materials. ENGEO led the effort to accurately quantify these materials and devise strategies to effectively manage and mitigate these materials to drive overall project cost savings.

Foster City Civic Center Lots—Foster City, CA
Assistant Project Manager. Jeff provided technical oversight for a Phase I ESA 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.

Macedo Property Environmental Consultation—Livermore, CA
Project Manager. Jeff provided comprehensive environmental consultation services for a Brownfields redevelopment project in Livermore. The project included several challenges, including ongoing business activities at the site and complex contaminant conditions resulting

from a long history of site operation of an automotive service station. Following a comprehensive site characterization plan that he developed, Jeff developed a cost-effective remedial plan to address hydrocarbon-contaminated soil. Jeff worked closely with the design team to rapidly remediate the site contamination using a soil excavation program that minimized disturbance to the active businesses at the site. Through Jeff's project oversight, the characterization and remediation activities were completed on time and under budget. Because of his effective work with various project stakeholders, the site was granted case closure from the oversight regulatory agency within an accelerated timeframe, allowing redevelopment to occur on schedule. The project consists of a residential subdivision. The project consists of a residential subdivision.

1511 Jefferson—Oakland, CA
Project Manager. Jeff provided environmental and geotechnical consultation services for a Brownfields redevelopment project in downtown Oakland. The project included several challenges, including limited site access due to on-site business activities, environmental impact related to previous site use, and the presence of several adjacent mid-rise structures. Jeff developed efficient remedial value engineering solutions to mitigate the presence of geotechnical and environmental development constraints. 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, consists of a multi-story residential condominium structure.

Alamo Creek—Danville, CA
Project Manager. Jeff prepared guidance documents and helped to form a transit-focused County Service Area (CSA). The transit-focused CSA, believed to be the first in Contra Costa County, helped to establish commuter transit service for a recently constructed residential development. Utilizing market analysis research provided by other consultants, he prepared an Engineer's Report that outlined a three-part phased implementation of transit, beginning with vanpools and ultimately resulting in an airporter-style fleet of bus service to and from an existing Bay Area Rapid Transit station. Jeff also prepared a long-range budget and confirmed a yearly assessment to ensure financial solvency of the CSA over the lifetime of the development. The CSA serves the Alamo Creek development and vicinity in Contra Costa County, California.

Alcosta Boulevard/Interstate 680 Interchange Project—San Ramon, CA
Project Engineer. Jeff performed an Aerially Deposited Lead (ADL) assessment program for the Alcosta Boulevard/Interstate 680 Interchange Improvement. The purpose of the investigation was to determine existing lead levels in surface soils. The scope of services included the recovery of soil samples from the surface to a depth of 3 feet below the ground surface, analytical testing of the samples to determine hydrogen ion content (pH testing), total lead, STLC WET soluble lead, and STLC TCLP soluble lead analyses, and a statistical analysis to determine Confidence Intervals (CI) of soil lead concentrations. An innovative, risk-based statistical analysis was performed to assure site soils were suitable for on-site reuse in accordance with Caltrans/State of California regulations. The project consists of a rehabilitation and realignment of the interstate highway interchange.

Arroyo Crossing—Livermore, CA
Project Engineer. Jeff contributed to the award-winning project, which included an extensive scope of work, including supplemental geotechnical exploration, Phase I and II ESAs, underground storage tank removal and groundwater monitoring. Jeff provided environmental analysis of existing subsurface conditions, helping the design team to implement a comprehensive yet innovative geotechnical and environmental mitigation program. Following

completion of environmental remediation activities, Jeff was able to secure a substantial federal corporate income tax rebate on behalf of the client through the EPA's Brownfields Tax Incentive program. The project consists of a residential subdivision re-use of a former quarry.

Brookside - Guadalupe Mines Road—San Jose, CA
Senior Engineer. Jeff performed a review of existing environmental documents by others, consultation with the client, and peer review document preparation. This 16-acre commercial property is planned for redevelopment into a roughly 95-lot single-family residential development. Site challenges include pre-existing environmental impacts, existing fills, creek bank stability/meander, and faulting.

East Garrison Development - Operations and Maintenance Plan—Carmel, CA
Project Engineer. Jeff prepared an Operations and Maintenance Plan (OMP) that included an assemblage of projected capital and maintenance costs from a range of consultants into working 50-year budgets for both a County Service District (CSD) and a homeowner's association (HOA). He worked to reach agreement with a number of project stakeholders, including the developer, other consultants, and local government agencies. In addition to assisting in the preparation of capital expenditure projections, Jeff developed the two operating and maintenance budgets, maintenance activity schedules and checklists, and the governing document for the two maintenance entities. The project consists of a redevelopment from a former military facility to a residential subdivision.

Highlands Ranch, Unit 3 - Environmental T&O—Pittsburg, CA
Project Engineer. Jeff managed the remediation of a former petroleum tank farm located in a rural/exurban setting. The extensive remediation program was in support of a conversion of industrial site usage into residential site usage. At this prototypical Brownfield site, Jeff personally oversaw all field operations involving a series of subcontractors, including an innovative ex-situ enhanced bioremediation program of impacted soils. Following excavation, Jeff worked closely with California Department of Toxic Substances Control (DTSC) personnel to determine the suitability of the intended site reuse. Jeff implemented an innovative statistical procedure in accordance with State and Federal Environmental Agency Best Practices to assure the site was safe for residential use. The project consists of a large-scale residential subdivision.

Highway 4 Bypass - Lime Treatment Consultation—Brentwood, CA
Project Manager. Jeff served as Project Manager. He provided consultation services that consisted of a variety of forensic analyses pertaining to the lime treatment of sub-base soils. Jeff worked closely with the project contractor as well as a diverse range of stakeholders to determine if lime treatment materials used in construction had met project specification. Following several protocols, including ASTM methods, Jeff demonstrated the absence of a statistical correlation that would confirm the use of substandard materials. Jeff's work was used to produce an opinion on behalf of the project team that the treated materials would be expected to adequately perform over the design life of the project, saving significant cost overruns. The project consists of a multi-lane highway constructed within a rapidly growing region of Eastern Contra Costa County. The project consists of a multi-lane highway constructed within a rapidly growing region of Eastern Contra Costa County.

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.

New Farm Agricultural and Meteorological Assessment—Contra Costa County, CA
Project Manager. Jeff managed an agricultural suitability evaluation. As part of the project, a portion of hillside open space is to be devoted to cultivation as olive groves. Jeff led the effort to review USDA soil maps and to test onsite soils for the ability to support olive cultivation. The soils were compared to active olive orchards in other locations of Contra Costa County. The project consists of a residential development with agricultural-intensive open space. Jeff managed an agricultural suitability evaluation. As part of the project, a portion of hillside open space is to be devoted to cultivation as olive groves. Jeff led the effort to review USDA soil maps and to test on-site soils for the ability to support olive cultivation. The soils were compared to active olive orchards in other locations of Contra Costa County. The project consists of a residential development with agricultural-intensive open space.

San Ramon Village Plaza - Environmental Consultation—Dublin, CA
Project Manager. Jeff 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 different 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.

Schaefer Ranch - GHAD Consultation—Dublin, CA
Project Engineer. Jeff assisted with the scoping, Plan of Control preparation, budget, and formation processes of a Geologic Hazard Abatement District (GHAD). The scope of the GHAD includes maintenance of slopes, water conveyance features, habitat, and other features. Proactive maintenance, assessment, repair and replacement are also the responsibility of the GHAD subject to the limitations of the Plan of Control. The project consists of a large-scale residential subdivision in the East Bay hills west of Dublin.

Sparklizing Cleaners and Laundry—Fremont, CA
Project Engineer. Jeff provided review and data analysis for this former dry cleaning facility that had released tetrachloroethylene (PCE) to site soil and groundwater. Work included site characterizations using direct push borings, soil gas surveys, well installations, and a remedial alternatives evaluation. He has also assisted in the development of a remedial program for the site. The project site consists of a dry-cleaning facility located within a commercial/retail center. Dry-cleaning operations occurred at the facility since 1974 and resulted in chlorinated solvent impacts to soil and groundwater beneath the site. As a result, the RWQCB opened a Spills, Leaks, Investigations, and Cleanups (SLIC) case and the site was referred to the Alameda County Water District (ACWD) for lead agency oversight. A series of soil and groundwater investigations identified a source area beneath the drycleaner suite and an adjoining retail suite. ENGEO prepared a Corrective Action Plan (CAP) and coordinated the in-situ chemical oxidation program that consisted of injecting 35,000 gallons of potassium permanganate to the subsurface to oxidize chlorinated solvents. The project is currently in the post-remediation monitoring phase.

Stone Lock District Development - Consulting Services—West Sacramento, CA
Project Engineer. Jeff prepared a pro forma analysis of infrastructure-related costs for a preliminary development concept of the property. The analysis included a cost estimate for all site improvements, grading, utilities, and non-structural facilities. Included in the analysis was an evaluation of the existing adjacent levee system. Jeff worked with other team members to provide

a preliminary assessment of the existing levee condition and prepared a cost estimate for levee rehabilitation and reconstruction. The project consists of a proposed mixed-use redevelopment as part of a city revitalization plan.

Torian Parcels - Additional Phase II Environmental Site Assessment—Newark, CA
Project Manager. Jeff served as Project Manager and Project Engineer. He provided comprehensive geotechnical and environmental evaluation. Several significant geotechnical and environmental conditions existed at the property, including compressible soils, liquefiable soils, and significant deposits of non-engineered fill and debris. Several areas of soil and groundwater environmental impact were present due to historic industrial use at and in the vicinity of the site. Jeff performed a financial analysis of several mitigation alternatives to identify the most cost effective remedial solution, one in which a single remedial program in several locations addressed both environmental and geotechnical impact. Additionally, Jeff worked closely with the environmental oversight agency to develop a work plan to assess potential environmental impact. In developing and implementing the work plan, Jeff was able to demonstrate that environmental impact at the property was not as extensive as previously believed. This allowed for an alteration of the proposed site plan to avoid areas of potential impact, saving significant projected redevelopment costs. The project consists of a residential redevelopment of a 40-acre property formerly used for industrial purposes. The project consists of a residential redevelopment of a 40-acre property formerly used for industrial purposes.

Los Banos Airport - Phase I ESA—Los Banos, CA
Project Engineer. Jeff provided a Phase I ESA, prepared a soil and groundwater characterization program, and developed a conceptual soil remediation work plan as part of a multi-phase development. The Los Banos Airport project measures approximately 112 acres in area.

Navlet's Garden Center Concord - Phase I ESA—Concord, CA
Project Manager. Jeff prepared a Phase I ESA for the site. Jeff was able to effectively navigate through the complex historic records and ownership legacy associated with the property. He prepared a report that satisfied the demands and deadline of both the ownership entity and the financial institutions associated with the property. The project consists of a Navlet's Garden Center.

Mare Island, 3rd and Connelly Utility Corridor Environmental Services—Vallejo, CA
Project Engineer. Jeff provided environmental consultation support. During excavation of the utility corridor, zones of impacted soil were identified and removed from an approximate 9,300-square-foot footprint area and depths from 5 to 10½ feet below existing grade. The project consisted of utility demolition and soil excavation activities required to prepare for construction of a 300-foot water and sewer utility corridor along Connelly Street between 3rd Street and Azuar Drive.

Maggiore Property - Soil Remediation—Brentwood, CA
Project Engineer. Jeff directed field remediation operations for the site, which had been affected by an unauthorized subsurface petroleum product release. He managed a site plume delineation and groundwater-monitoring program. Additionally, Jeff performed RBCA Tier I and Tier II assessments to determine feasibility of residential development of property. The project consists of a small residential subdivision.

Cree Court Slide Repair—San Ramon, CA
Project Engineer. Jeff assisted in the development and implementation of a custom-tailored "top-down" construction procedure, allowing the project to be constructed on time and under

budget. Additionally, Jeff helped develop an innovative non-structural grouting procedure to verify proper structural tieback performance. The project consisted of an integrated structural and grading-related repair for the mitigation of a large active landslide in proximity to existing homes. A 70-foot-high retaining wall is now in place to stabilize a major, active landslide.

Sequoia/Conifer Terrace - Structural Repair Design—Danville, CA
Project Engineer. Jeff assisted in the design of a structural repair system for a landslide remediation project within a residential setting. He provided recommendations to help optimize construction of system and lessen financial burden of project. The project consisted of a unique structural repair for the mitigation of a large active landslide in close proximity to existing homes.

PUBLICATIONS

Books and Book Chapters

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Reddy, K.R., and Adams, J.A., Cleanup of Chemical Spills Using Air Sparging, Chapter 14 in the Handbook of Hazardous Materials Spill Technology, M. Fingas (ed.), McGraw-Hill Company, 2001, pp.14.1-14.29 (ISBN: 0-07-135171-X).

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Adams, J.A., and Reddy, K.R., "Laboratory Study of Air Sparging of TCE-Contaminated Saturated Soils and Groundwater," Ground Water Monitoring and Remediation, Vol.19, No.3, 1999, pp.182-190.

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Reddy, K.R., Adams, J.A., and Richardson, C., "Potential Technologies for Remediation of Brownfields," Practice Periodical of Hazardous, Toxic, and Radioactive Waste Management, ASCE, Vol.3, No.2, 1999.

Reddy, K.R., Semer, R., and Adams, J.A., "Air Flow Optimization and Surfactant Enhancement to Remediate Toluene-Contaminated Saturated Soils Using Air Sparging," Environmental Management & Health, Special Issue on Groundwater, Vol.10, No.1, 1999.

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ENGEO
Expect Excellence

Appendix F:
Noise Supporting Information

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Mobile Construction Activity

Receptor: Closest residential common area

		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Backhoe	85	1	1	145	1	3	72.8	48.1	64983.93507
2	Front End Loader	85	1	1	195	1	3	70.2	44.3	26718.1374
3	Scraper	85	1	1	195	1	3	70.2	44.3	26718.1374
4	Rubber Tired Dozer	85	1	1	195	1	3	70.2	44.3	26718.1374
5	Front End Loader	85	1	1	195	1	3	70.2	44.3	26718.1374
6										
7										
8										
9										
10										
							Lmax[4]	**73**	**Leq**	**52**

Notes:
[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to existing wooden fence
[4] Calculated Lmax is the Loudest value.

Ldn Calculations					
	Time	Hourly Leq	Leq'	0.1*Leq	antiLog
Night	12:00 AM	0.0	10.0	1	10
	1:00 AM	0.0	10.0	1	10
	2:00 AM	0.0	10.0	1	10
	3:00 AM	0.0	10.0	1	10
	4:00 AM	0.0	10.0	1	10
	5:00 AM	0.0	10.0	1	10
	6:00 AM	0.0	10.0	1	10
Day	7:00 AM	52.4	52.4	5.235165924	171856.4847
	8:00 AM	52.4	52.4	5.235165924	171856.4847
	9:00 AM	52.4	52.4	5.235165924	171856.4847
	10:00 AM	52.4	52.4	5.235165924	171856.4847
	11:00 AM	52.4	52.4	5.235165924	171856.4847
	12:00 PM	52.4	52.4	5.235165924	171856.4847
	1:00 PM	52.4	52.4	5.235165924	171856.4847
	2:00 PM	52.4	52.4	5.235165924	171856.4847
	3:00 PM	52.4	52.4	5.235165924	171856.4847
	4:00 PM	52.4	52.4	5.235165924	171856.4847
	5:00 PM	52.4	52.4	5.235165924	171856.4847
	6:00 PM	52.4	52.4	5.235165924	171856.4847
	7:00 PM	52.4	52.4	5.235165924	171856.4847
	8:00 PM	52.4	52.4	5.235165924	171856.4847
	9:00 PM	52.4	52.4	5.235165924	171856.4847
Night	10:00 PM	0.0	10.0	1	10
	11:00 PM	0.0	10.0	1	10
			Sum		2577937.27
			Sum/24		107414.0529
			Log10(Sum/24)		5.031061104
			10*Log10(Sum/24)		50.31061104
			24 Hour Ldn		50

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Airport Way to Winters Drive
NOTES: Prose Manteca Residential Project - Existing

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 15800 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 66.90

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	96.6	203.1	435.0

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Winters Drive to North Union Road
NOTES: Prose Manteca Residential Project - Existing

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 18700 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.63

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	107.5	226.9	486.6

TABLE Existing plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Airport Way to Winters Drive
NOTES: Prose Manteca Residential Project - Existing plus Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 17100 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.24

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	101.6	213.9	458.5

TABLE Existing plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Winters Drive to North Union Road
NOTES: Prose Manteca Residential Project - Existing plus Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 19000 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 67.70

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
0.0	108.5	229.3	491.8

TABLE Cumulative-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Airport Way to Winters Drive
NOTES: Prose Manteca Residential Project - Cumulative

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 23300 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.58

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
61.2	123.6	262.3	563.1

TABLE Cumulative-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Winters Drive to North Union Road
NOTES: Prose Manteca Residential Project - Cumulative

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26400 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.12

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
65.7	134.0	284.9	611.9

TABLE Cumulative plus Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Airport Way to Winters Drive
NOTES: Prose Manteca Residential Project - Cumulative plus Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 24600 SPEED (MPH): 45 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 68.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
63.1	128.0	271.9	583.8

TABLE Cumulative plus Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 04/19/2022
ROADWAY SEGMENT: West Yosemite Avenue - Winters Drive to North Union Road
NOTES: Prose Manteca Residential Project - Cumulative plus Project

---

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 26600 SPEED (MPH): 45 GRADE: .5

	TRAFFIC DISTRIBUTION PERCENTAGES DAY	NIGHT
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 24 SITE CHARACTERISTICS: SOFT

---

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 69.16

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
66.0	134.6	286.3	615.0

Mechanical Equipment Noise Calculation

Receptor: Closest Residence -east of Project

		Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 3 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Residential grade mechanical ventilation equipment	70	1	100	35	1	3	45.7	35.0	3156.164503
2	Residential grade mechanical ventilation equipment	70	1	100	35	1	3	45.7	35.0	3156.164503
3	Residential grade mechanical ventilation equipment	70	1	100	35	1	3	45.7	35.0	3156.164503
4	Residential grade mechanical ventilation equipment	70	1	100	35	1	3	45.7	35.0	3156.164503
5										
6										
7										
8										
9										
10										
							Lmax[4]	46	Leq	41

Notes:

[1] Percentage of time activity occurs each hour

[2] Soft ground terrain between project site and receptor.

[3] Shielding due to proposed solid wood fence

[4] Calculated Lmax is the Loudest value.

Parking Lot activity

Receptor: Closest Residence - east of Project

No.	Equipment Description	Reference (dBA) 25 ft Lmax	Quantity	Usage factor[1]	Distance to Receptor	Ground Effect[2]	Shielding (dBA)[3]	Calculated (dBA) Lmax	Calculated (dBA) Leq	Energy
1	parking lot activity	70	5	1	35	0.5	3	64.1	50.3	108056.2558
2	parking lot activity	70	5	1	80	0.5	3	56.9	41.4	13680.28227
3	parking lot activity	70	5	1	45	0.5	3	61.9	47.6	57648.59691
4	parking lot activity	70	5	1	90	0.5	3	55.9	40.1	10190.92845
5										
6										
7										
8										
9										
10										
							Lmax[4]	**64**	**Leq**	**53**

Notes:

[1] Percentage of time activity occurs each hour

[2] Soft ground terrain between project site and receptor.

[3] Shielding due to terrain or structures

[4] Calculated Lmax is the Loudest value.

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Appendix G:
Transportation Impact Analysis

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KITTELSON & ASSOCIATES

PROSE MANTECA TRANSPORTATION IMPACT ANALYSIS

MANTECA, CA

July 26, 2022



Prose Manteca Transportation Impact Analysis

Manteca, CA

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Project Number 27326

July 26, 2022



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Section 1
Introduction and Summary

INTRODUCTION AND SUMMARY

This report presents the findings of the transportation impact analysis (TIA) conducted for the proposed Prose Manteca residential development, north of the intersection of Yosemite Avenue and Winters Drive, in the City of Manteca, California.

INTRODUCTION

PROJECT DESCRIPTION

The proposed Prose Manteca residential development (the "project") would develop the site located at 1563 and 1625 West Yosemite Avenue, north of the Yosemite Avenue & Winters Drive intersection, as shown in **Figure 1**. The project site consists of vacant land and proposes to construct a 420 unit multifamily residential development consisting of three story buildings along with 746 surface parking spaces, common open space, a community building with pool, and landscaping. The project conceptual plan is presented in **Figure 2**.

SURROUNDING LAND USES

The project site is currently vacant and is bordered by a drainage canal and the Manteca Park Golf Course to the north, residential, commercial, and retail uses to the east, West Yosemite Avenue and commercial uses to the south, and Kaiser Permanente Medical Center and vacant land to the west.

SCOPE OF TRANSPORTATION IMPACT ANALYSIS

The transportation impact analysis includes two levels of evaluation:

- California Environmental Quality Act (CEQA) transportation analysis
- Local transportation analysis

CEQA Transportation Analysis

The CEQA transportation analysis includes four transportation impact areas:

a. Conflicts with circulation system programs
b. Vehicle-miles of travel (VMT)
c. Hazards
d. Emergency access

These are the transportation impact areas that may be considered in environmental documentation for the project. Other transportation issues would not be part of the environmental evaluation under CEQA but may be considered as part of a local transportation analysis.

Local Transportation Analysis

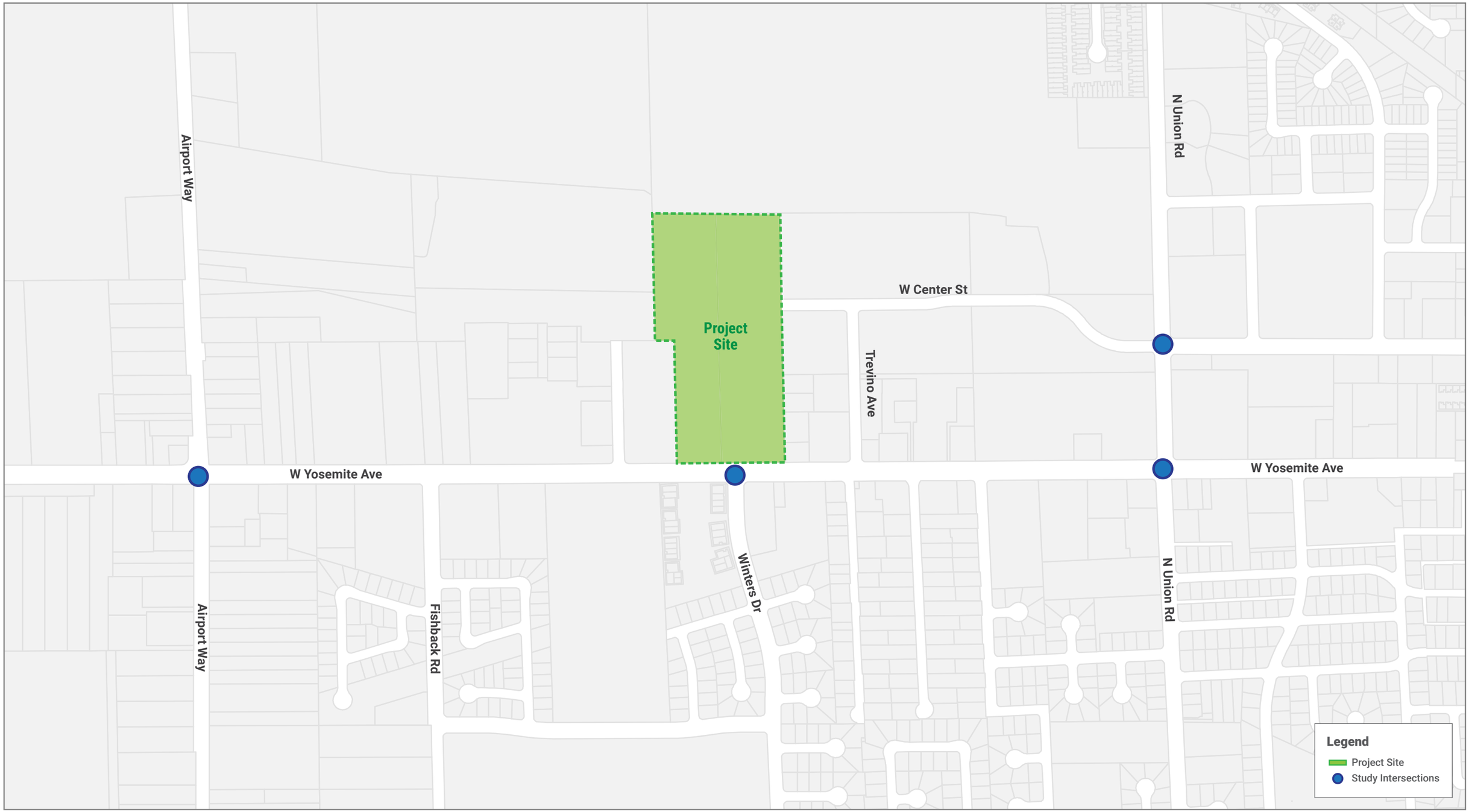
The local transportation analysis evaluates the project's potential effects on the transportation system relative to City of Manteca policies and standards. The transportation issues considered in the local transportation analysis include:

- Traffic operations at study intersections
- Site access and circulation
- Parking

Traffic operations were evaluated at four existing study intersections as well as two project driveways, as shown in **Figure 1**, for the following four scenarios:

- Existing conditions without project
- Existing plus project conditions
- Cumulative (2040) conditions without project
- Cumulative (2040) plus project conditions

The cumulative 2040 analysis conditions are based upon future 2040 traffic volumes and the future 2040 transportation network (including committed transportation improvements), consistent with the Manteca General Plan.


Airport Way
N Union Rd
Project Site
W Center St
Trevino Ave
W Yosemite Ave
W Yosemite Ave
Airport Way
Fishback Rd
Winters Dr
N Union Rd
Legend
Project Site
Study Intersections
Scale in Feet
0
600
North



LEGEND:

- RESIDENTIAL COVERAGE
- CARPORT & TRASH COVERAGE
- **TOTAL BUILDING COVERAGE: 32.4%**
- **OPEN SPACE: 30.9%**
- **ACCESSIBLE PATH OF TRAVEL**
- **GROUND LEVEL STORAGE ROOM**

PROJECT DATA:

Location	1563 & 1625 W. Yosemite Ave, Manteca CA				
Assessor Parcel Number	200-150-260 & 200-150-270				
Parcel Area - Project Total	790,513	sf	18.15	ac	Includes Center Street Area
Parcel Area - Parcel 1	273,842	sf	6.29	ac	
Parcel Area - Parcel 2	516,671	sf	11.86	ac	
DEVELOPMENT STANDARDS	**STANDARD**				**PROPOSED**
General Plan land use	Mixed Use Commercial (CMU)				
Max. density (du/ac)	15.1 to 25 units per acre				23.14
Zoning designation	Mixed Use Commercial (CMU)				
Max. floor area ratio	1				0.56
Max. Building height (ft)	35'				35'
Max.bldg coverage	50%				32.3%
Min. Private Open Space	40 sf per unit				40 sf per unit
Min. Open Space	30%				31.3%
Setbacks					
Front (ft)	0', 15' adjacent to R-3				15' min
Side (ft)	0', 5' adjacent to R-3				10' min
Rear (ft)	0'				19' min
PARKING STANDARDS	**STANDARD**				**PROPOSED**
	Spaces/Unit		Total required		
1-bedroom	1.5		285		286
2-bedroom	2		460		460
Total			**745**		**746**
Covered			**420**		**420**
Covered Accessible	2% (Assigned)		8.4		9 of 420
Covered EVSE	10% min		42		42 of 420
Covered EVSE Accessible	1 per 25 EV spaces		1.68		3 of 42
Uncovered			**325**		**326**
Uncovered Accessible	5% (Unassigned)		16.3		17 of 326
Uncovered EVSE	10% min		32.5		34 of 326
Uncovered EVSE Accessible	1 per 25 EV spaces		1.3		2 of 34
Compact %	30% max		97.5		9.2%
Bike Parking			18		18

SITE PLAN AND DESIGN REVIEW SUBMITTAL 2

PROSE MANTECA

MANTECA, CA

KIER+WRIGHT

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DAHLIN

SUMMARY

CEQA TRANSPORTATION ANALYSIS

- The proposed Prose Manteca Residential Development (the "project") is not anticipated to cause any signficant impacts on the transportation system in terms of conflicts with plans, VMT, hazards, or emergency access if recommendations provided in the report are incorporated.
- The project's VMT per household under cumulative conditions is estimated to be 40.0 percent lower than the existing baseline VMT per household in Manteca, which is below the 15 percent VMT impact threshold recommended by the State of California.

LOCAL TRANSPORTATION ANALYSIS

Intersection Operations

- All study intersections operate at level of service D or better in existing conditions, consistent with General Plan policies.
- With traffic added by the proposed project, all study intersections would continue to operate at level of service D or better in existing plus project conditions, consistent with General Plan policies.
- With 2040 cumulative growth and committed street improvements per the City's Transportation Public Facilities Implementation Plan (PFIP), all study intersections would operate at level of service D or better except:
    - Airport Way & Yosemite Avenue would operate at LOS E during the AM peak hour and LOS F during the PM peak hour with and without the project. Project traffic is estimated to increase delay by up to 6 seconds per average vehicle during the peak hour (an approximately 5% increase).
    - Union Road & Yosemite Avenue LOS F during the AM peak hour and LOS E during the PM peak hour with and without the project. Project traffic is estimated to increase delay by up to 2 seconds per average vehicle during the peak hour (an approximately 3% increase).
- The Airport Way & Yosemite Avenue intersection is identified in the Manteca PFIP as an intersection with planned improvements. In addition to the planned PFIP improvements, dual left-turn lanes on all approaches and a dedicated westbound right-turn lane would provide the capacity needed for the intersection to operate at acceptable LOS D in Cumulative and Cumulative plus Project Conditions.
- The Union Road & Yosemite Avenue intersection is not identified in the PFIP as an intersection with planned improvements and is anticipated to operate unacceptable LOS in Cumulative conditions (with and without the project). An additional eastbound and northbound left-turn lane, along with a dedicated southbound right-turn lane is anticipated to provide the needed capacity for the intersection to operate at acceptable LOS D in Cumulative and Cumulative plus Project Conditions.

Site Access and Circulation

- For the project's proposed main southern driveway at the Yosemite Avenue & Winters Drive intersection, a single entrance lane and a single shared through/left/right southbound exit lane would provide for acceptable operations during the weekday AM and PM peak hour conditions. The driveway is anticipated to operate at acceptable LOS C in Existing plus

Project and Cumulative plus Project conditions based upon the operational analyses conducted as part of this study.

- For the proposed project access and extension of Center Street as shown in the project site plan, it is recommended that the northbound and southbound approaches along Center Street within the project site provide sidestreet stop control, similar the residential community east of the project site.
- The proposed site plan is anticipated to provide adequate pedestrian circulation and access for all vehicle types.
- The project proposes to provide 190 1-bedroom dwelling units, 230 2-bedroom units, and 746 surface parking spaces. Based on the City's municipal code requirement of one covered space per multifamily dwelling unit plus 0.5 space per 1-bedroom unit or one covered space plus one space for each 2-bedroom (or more) dwelling unit, it is anticipated that the proposed project would meet the City parking requirement of 745 spaces.



Section 2
Existing Conditions

EXISTING CONDITIONS

This chapter provides a description of the existing roadway, traffic, transit, bicycle, and pedestrian components of the transportation system within the study area.

DATA COLLECTION

Intersection turning movement count data were collected on Tuesday, September 14, 2021 (Intersections #1) and Tuesday, February 1, 2022 (Intersections #2 through #4), during the AM (7:00-9:00 AM) and PM (4:00-6:00PM) peak periods at the four intersections. Peak hour traffic count data are provided in **Figure 3**.

Existing traffic control, transit service, bicycle and pedestrian facilities, and planned transportation improvement information was compiled as part of the data collection efforts.

ROAD NETWORK

The roadway system in the study area consists of local streets that serve local travel demand.

LOCAL STREETS

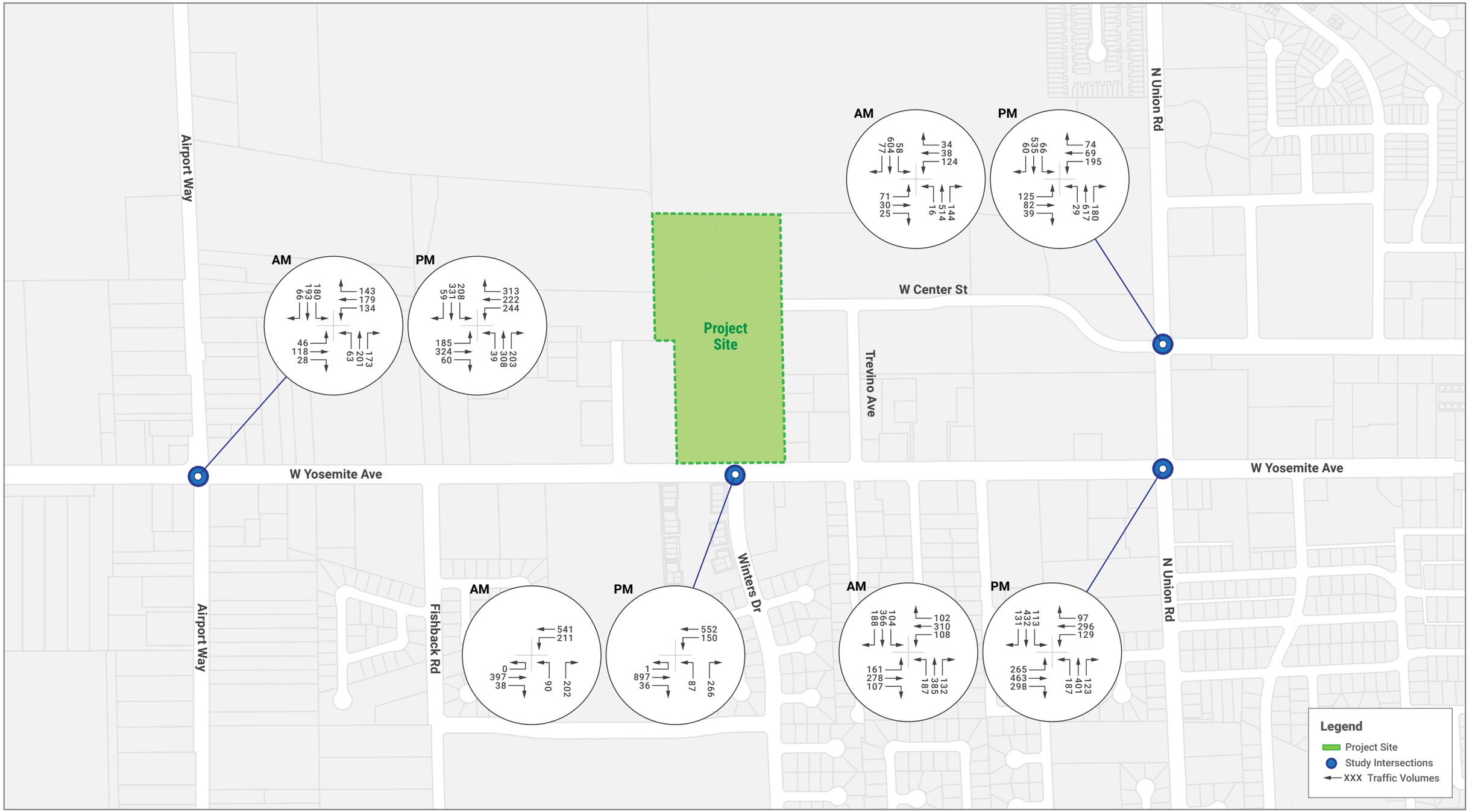
Airport Way is an arterial within the City of Manteca. It provides connectivity from Stockton to the north to rural San Joaquin County to the south. It is primarily a two-lane road within the city. Outside Manteca, the facility operates as a two-lane rural highway providing access primarily to rural residential, agricultural and some industrial land uses. The curb-to-curb width is generally about 30-feet, with two 12-foot lanes and two 3-foot shoulders. Street parking is not present along Airport Way in the study area. The posted speed limit is 45 mph.

Yosemite Avenue is an arterial roadway within the City of Manteca and provides connectivity from Lathrop to the west to rural San Joaquin County to the east and State Road 120. It is a four-lane roadway with a two-way left-turn lane adjacent to the project site. In the project vicinity, the curb-to-curb width is generally about 75 feet, with four 10-foot lanes, one 12-foot two-way left-turn, and 10-foot shoulders with street parking and bike lane on both sides of the road east of St. Dominics Drive. West of St. Dominics Drive, no on-street parking or bike lanes exist. The posted speed limit varies between 35 mph near the project site.

Winters Drive is collector roadway within the City of Manteca and provides north-south connectivity from Daniels Street to Yosemite Avenue. It is primarily a two-lane road with a two-way left turn lane near the project site. Near the study area, the curb to curb width is approximately 60 feet, with two 12-foot lanes, one 15-foot two-way left turn lane, and a 10-foot shoulder with a bike lane and on street parking on each side of the road. The posted speed limit is 35 mph.

Center Street is an arterial roadway within the City of Manteca and provides connectivity from the project site in the west to Fremont Avenue in the east. Near the project site, it is primarily a two-lane road with a curb-to-curb width of approximately 40 feet, with two 12-foot lanes and one 4-foot shoulder with bike lane, one 11 foot shoulder, and on street parking. The posted speed limit varies between 25 mph and 35 mph.

Union Road is a north-south road classified as an arterial that provides connectivity to City's north and south residential and agricultural land uses, as well as SR 120 via eastbound and westbound on- and off-ramps. A diverging diamond interchange (DDI) has been constructed for the SR 120 & Union Road interchange. Union Road is primarily a two-lane road in the project vicinity, with sections alternating between divided and undivided lanes. The curb-to-curb width generally ranges between 100 and 35-feet, with between four and two travel lanes, paved shoulders, and raised medians (where divided). Street parking is not present along Union Road in the study area. The southbound posted speed limit is 55 mph south of Peach Road and 40 mph north of Peach Road in the project vicinity. The northbound posted speed limit is 55 mph south of Peach Road and 35 mph north of Peach Road in the project vicinity.


Airport Way
N Union Rd
W Center St
Trevino Ave
Project Site
W Yosemite Ave
Fishback Rd
Winters Dr
AM
PM
180 193 66
143 179 134
46 118 28
173 201 63
208 331 59
313 222 244
185 324 60
203 308 39
58 604 77
34 38 124
71 30 25
144 514 16
66 535 60
74 69 195
125 82 39
180 617 29
541 211
0 397 38
90 202
552 150
1 897 36
87 266
104 366 188
102 310 108
161 278 107
132 385 187
113 432 131
97 296 129
265 463 298
123 401 187
Legend
Project Site
Study Intersections
XXX Traffic Volumes
Scale in Feet
0
600
North

TRANSIT SERVICES

The transit system in the study area consists of local bus and regional rail service. Transit service in the area is provided by Manteca Transit, the San Joaquin Regional Transit District, and the Modesto Area Express. Regional rail service is provided by the Altamont Commuter Express. The existing transit facilities within the study area are further discussed below.

MANTECA TRANSIT

Manteca Transit provides bus service in the study area. Manteca Transit bus routes and local bus stops are shown on **Figure 4** and listed in **Table 1**.

Table 1: Existing Manteca Transit Weekday Service

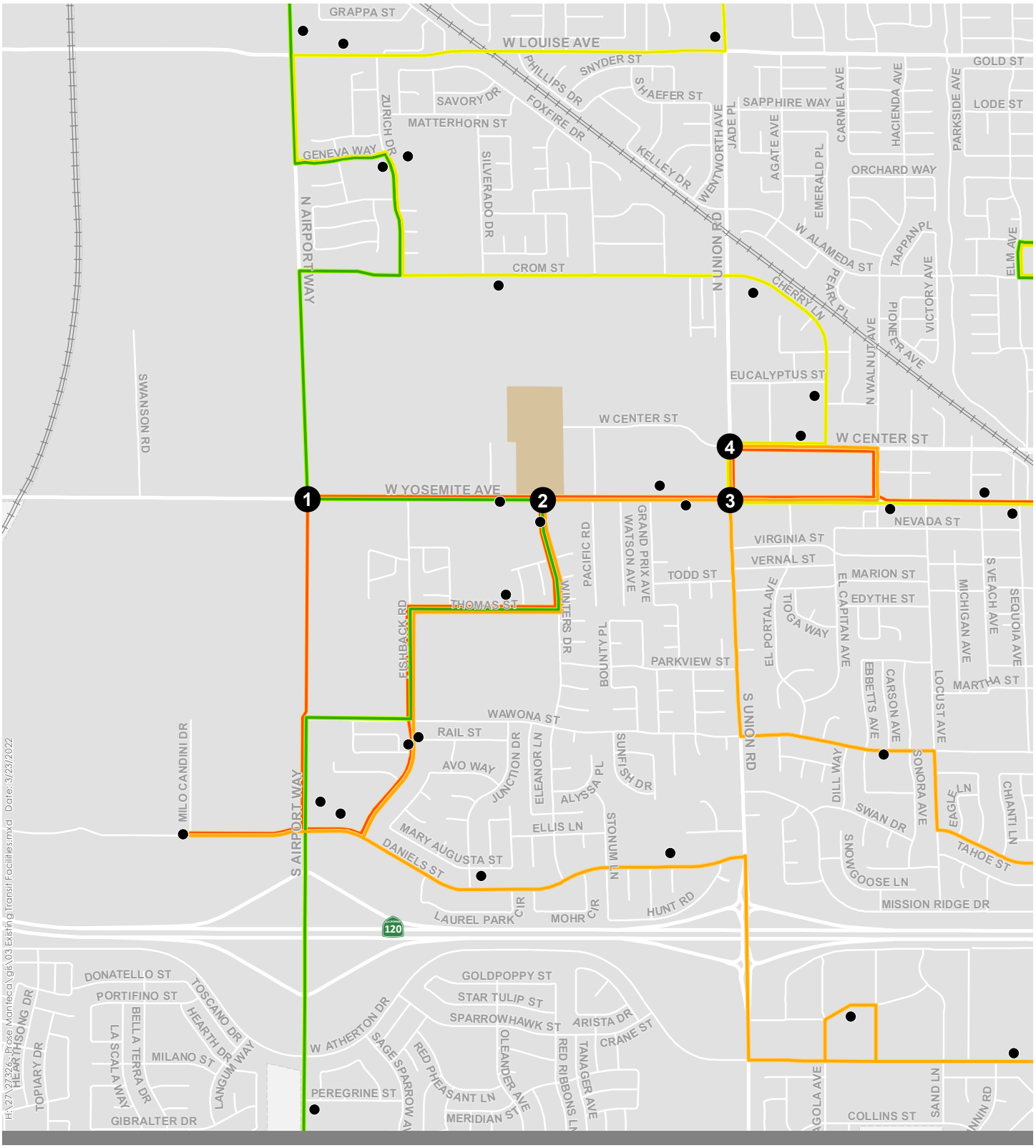
Route	Loop Direction	Key Destinations	Peak/Off-Peak Frequency (minutes)
1	Counterclockwise	■ Manteca Transit Center ■ Daniels Street at Stadium Center ■ Spreckles Shopping Area	60/60
2	Clockwise	■ Manteca Transit Center ■ Mission Ridge Shopping Center ■ Promenade Shops at Orchard Valley	60/60
3	Counterclockwise	■ Manteca Transit Center ■ McParland School ■ Louise Avenue ■ Manteca Golf Course	60/60
4	Clockwise	■ Manteca Transit Center ■ McParland School ■ Woodward Avenue ■ Manteca Golf Course	60/60

Source: Manteca Transit Ride Guide / System Map

Generally, curbside transit stops in the study area are identified with posted signs and do not include passenger amenities such as a shelter, seating, landscaping, bicycle parking, or pedestrian-scale lighting.

The transit stop closest to the project site is located along the north side of Yosemite Avenue approximately 450 feet west of the Yosemite Avenue & Winters Drive Intersection. This stop serves Manteca Transit Route 1 and 4 and provides a covered seating/waiting area and trash receptacle.

The project site is within the Manteca Transit's current Dial-A-Ride service area.



Manteca Bus Route 1

Manteca Bus Route 2

Manteca Bus Route 3

Manteca Bus Route 4

Bus Stop

Study Intersections

Railroad

Site

City Boundary

0 2,000 Feet

Figure 4

KITTELSON & ASSOCIATES

Existing Transit Facilities
Manteca, California

MODESTO AREA EXPRESS (MAX)

The Modesto Area Express (MAX) offers express commuter Service to the Manteca/Lathrop ACE train station from the Modesto Transit Center.

SAN JOAQUIN REGIONAL TRANSIT DISTRICT (RTD)

The San Joaquin Regional Transit District (RTD) provides regional service between Modesto and Stockton through Manteca via Hopper Routes 91, 95, and 97 along South Main Street (closest routes to the project site).

ALTAMONT CORRIDOR EXPRESS (ACE)

The Altamont Corridor Express (ACE) provides service from Stockton to San Jose (in the morning) and from San Jose to Stockton (in the afternoon). The Manteca Transit Center serves as the Lathrop/Manteca stop.

MANTECA TRANSIT CENTER

The Manteca Transit Center provides service to all four bus routes and the San Joaquin RTD Route 91. The ACE Lathrop/Manteca Station provides connection to Altamont Corridor Express (ACE), Modesto Area Express (MAX), and RTD Route 91. The Manteca Transit Shuttle runs between the Manteca Transit Center and the ACE Lathrop/Manteca station five times per day. The Park & Ride Lot provides access to RTD Route 91.

BICYCLE FACILITIES

This section describes the existing bicycle facilities within the study area and **Figure 5** graphically shows the locations of the existing facilities.

Bicycle facilities are categorized into four types, as described below:

- **Class I Bikeway (Bike Path**). Also known as a shared path or multi-use path, a bike path is a paved right-of-way for bicycle travel that is completely separate from any street or highway.
- **Class II Bikeway (Bike Lane)**. A striped and stenciled lane for one-way bicycle travel on a street or highway. This facility could include a buffered space between the bike lane and vehicle lane and the bike lane could be adjacent to on-street parking.
- **Class III Bikeway (Bike Route)**. A signed route along a street where the bicyclist shares the right-of-way with motor vehicles. This facility can also be designated using a shared-lane marking (sharrow).
- **Class IV Bikeway (Separated Bike Lane)**. A bikeway for the exclusive use of bicycles including a separation required between the separated bikeway and the through vehicular traffic. The separation may include, but is not limited to, grade separation, flexible posts, inflexible physical barriers, or on-street parking.

As shown in **Figure 5**, the existing bicycle facilities within the study area include:

- Class II bicycle lanes along both sides of Winters Drive from Daniels Street to the project site
- Class II bicycle lanes along both sides of Yosemite Avenue from St. Dominics Drive to Walnut Avenue
- Class II bicycle lanes along both sides of Crom Street from Airport Way to Union Road
- Class II bicycle lanes along both sides of Center Street from Union Road to Acadia Avenue

PEDESTRIAN FACILITIES

The study area offers several types of facilities and amenities that support walking (**Figure 6**). The availability and quality of pedestrian facilities can be analyzed using seven key factors as shown in **Table 2**.

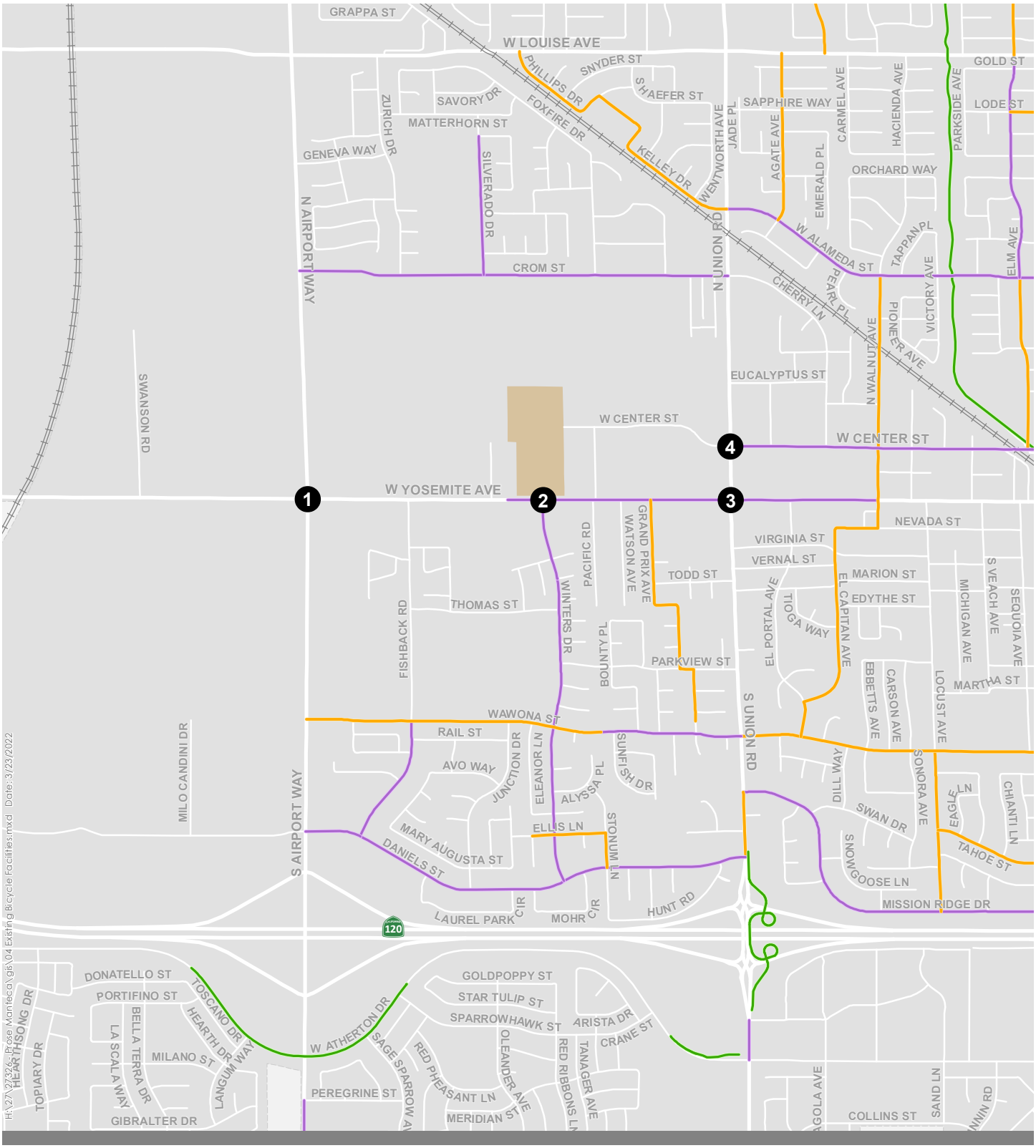


Figure 5

Existing Bicycle Facilities
Manteca, California

KITTELSON & ASSOCIATES

Table 2: Pedestrian Facility Conditions

Factor	Description	Assessment
Sidewalk Availability	Sidewalk availability is core to supporting walkability and safety separating pedestrians from vehicles and other modes. In addition, it is important that sidewalks are present on both sides of the roadway and are available along the entire segment rather than end midblock.	Sidewalk generally exists along both sides of the roadways adjacent to the project site, south of the project site, and east of the project site, wihin the study area. Sidewalk exists on the north side of Yosemite Avenue west of the project site to St. Dominic's Drive, providing walkability to the existing bus stop. Along Yosemite Avenue, west of the St. Dominics Drive intersection, sidewalk does not exist along either side of the roadway.
Sidewalk Conditions	Cracked, broken, or otherwise damaged sidewalks can pose a safety hazard and discourage walking.	Existing sidewalks within walking distance of the project site are generally in good condition, free of cracks or uplifts.
Crosswalk Availability	Marked crosswalks can safely accommodate pedestrians that need to cross streets. A lack of marked crosswalks could hinder walkability since pedestrians need to travel greater distances to reach a safe marked crossing point. Drivers may also be less likely to yield to intersections at unmarked crossings.	Standard crosswalks are consistently provided at major signalized study intersections along Union Road, Airport Way and Yosemite Avenue. The east leg of Union Road & Center Street provides a high visibility marked crosswalk with longitudinal striping, while the other three legs provide standard crosswalk markings (two parallel white lines). Unsignalized intersections within the study area in general do not provide marked crosswalks. Midblock crosswalks do not exist within walking distance of the project site.
Shading	Shading, whether natural or artificial, can encourage walking in areas such as California, particularly Manteca, which are relatively warm with limited rainfall, especially in the summer.	Center Street provides some tree shade along both sides of the road and a few business fronts. In general, shading does not exist along pedestrian routes within the study area.
Flat Grade	Steep hills and ravines can discourage walking, especially for pedestrians with limited mobility.	Major streets in the study area are relatively flat, though some rolling hills are present along Airport Way.
Buffer	Buffers which provide separation between pedestrians and moving vehicles can help improve the walking experience, and can include landscaping, parked vehicles, and bulbouts, which serve to both reduce pedestrian crossing distances at intersections and as a traffic calming measure.	In general, neighborhood streets within the study area, provide buffers in the form of street landscaping and/or parked cars. Arterials within the study area do not provide buffers with the sidewalk coming out directly to the edge of the road or bicycle lane.
Amenities	In addition to physical facilities that accommodate walking, useful or interesting amenities along sidewalks create a more interesting walking environment and increase pedestrian comfort. Amenities can include sidewalk-adjacent retail and restaurants, landscaping, and street furniture.	Pedestrian amenities primarily consist of street landscaping along residentially developed segments within the study area.

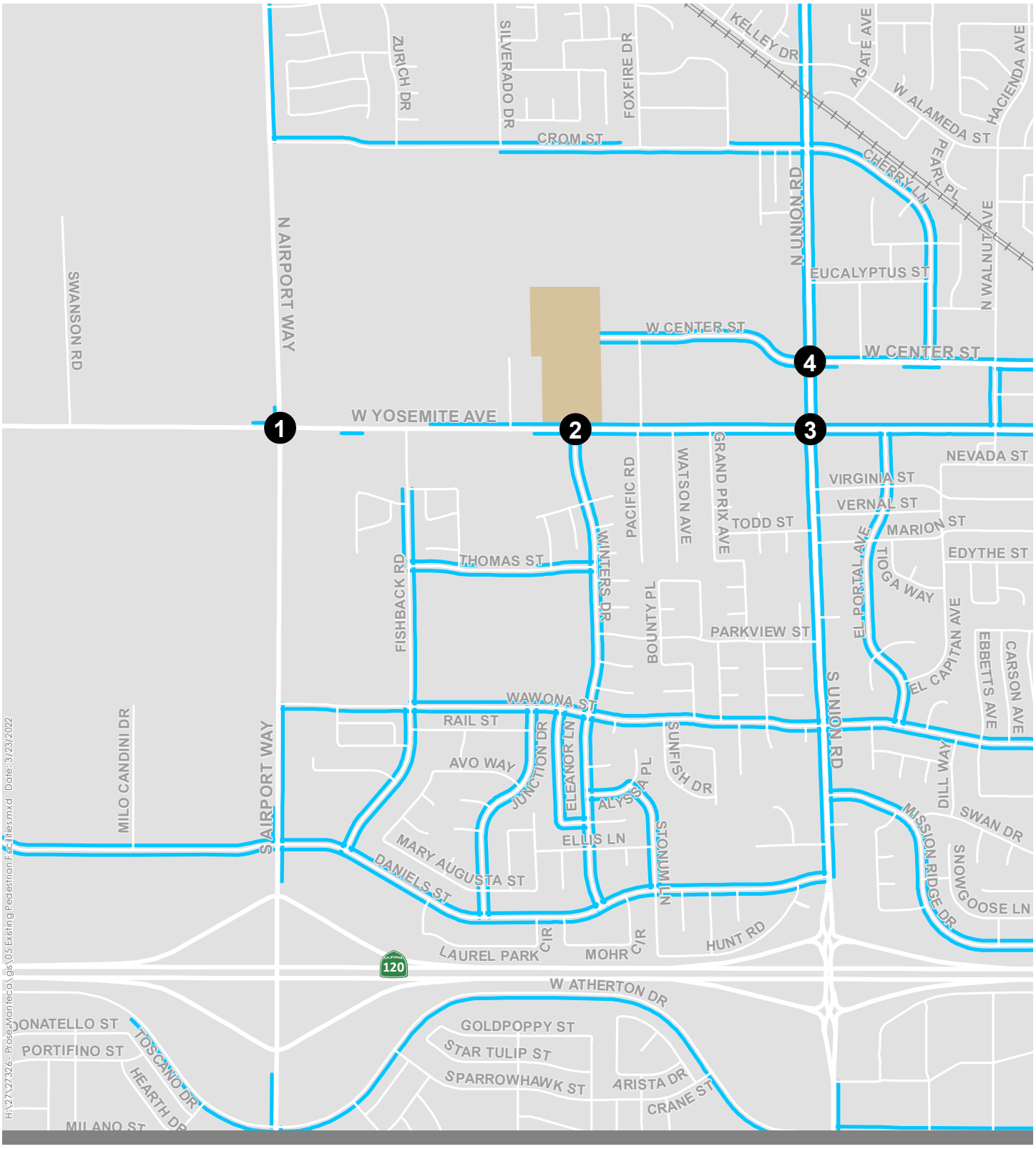


Figure 6

Existing Pedestrian Facilities
Manteca, California

KITTELSON & ASSOCIATES

EXISTING TRAFFIC OPERATIONS

This section provides information on the existing operating conditions for study intersections in the vicinity of the project site.

LEVEL OF SERVICE METHODOLOGY

Methodologies outlined in the Transportation Research Board's *Highway Capacity Manual* (HCM) are used to evaluate level of service for the study intersections and is described in this section.

Level of Service

Level of service (LOS) describes the operating conditions experienced by individuals on a transportation system. For motorized vehicles, level of service is a qualitative measure of the effects of a number of factors, including speed and travel time, traffic interruptions, freedom to maneuver, driving comfort, and convenience. Levels of service are designated LOS "A" through "F," from best to worst, which cover the entire range of traffic operations that might occur. Levels of service A through D generally represent traffic volumes at less than roadway capacity, while LOS F represents conditions where traffic demands exceed capacity and the flow of traffic breaks down, resulting in stop-and-go conditions and long queues of vehicles.

The City of Manteca General Plan Policy C-1.2 states that to the extent feasible, strive for a vehicular LOS of D or better during weekday AM and PM peak hours at all streets and intersections, except in the Downtown area.

Intersection LOS was analyzed using methodologies described in the 6th Edition of the *Highway Capacity Manual* (HCM 6), as implemented in the analysis software program Synchro 11.

Signalized Intersections

At signalized intersections, the level of service is determined by the weighted average delay for all vehicles entering the intersection and the calculated average total delay per vehicle and level of service for the intersection as a whole. **Table 3** presents the average delay criteria used to determine the level of service at signalized intersections.

Table 3: Level of Service Definition for Signalized Intersections

Level of Service (LOS)	Average Delay (seconds/vehicle)	Description
A	≤ 10	**Very Low Delay:** This level of service occurs when progression is extremely favorable, and most vehicles arrive during a green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
B	> 10 and ≤ 20	**Minimal Delays:** This level of service generally occurs with good progression, short cycle lengths, or both. More vehicles stop than at LOS A, causing higher levels of average delay.
C	> 20 and ≤ 35	**Acceptable Delay:** Delay increases due to fair progression, longer cycle lengths, or both. Individual cycle failures may begin to appear at this level of service. The number of vehicles stopping is significant, though many still pass through the intersection without stopping.
D	> 35 and ≤ 55	**Approaching Unstable Operation/Significant Delays:** The influence of congestion becomes more noticeable. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume / capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	> 55 and ≤ 80	**Unstable Operation/Substantial Delays:** These high delay values generally indicate poor progression, long cycle lengths, and high volume / capacity ratios. Individual cycle failures are frequent occurrences.
F	> 80	**Excessive Delays:** This level, considered unacceptable to most drivers, often occurs with oversaturation (that is, when arrival traffic volumes exceed the capacity of the intersection). It may also occur at high volume / capacity ratios below 1.0 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels.

Source: *Highway Capacity Manual 6th Edition* (HCM 6)

Signal Operations

Kittelson requested and received signal timing information directly from City of Manteca staff for the following signalized intersections.

- Airport Way & Yosemite Avenue
- Yosemite Avenue & Winters Drive
- Union Road & Yosemite Avenue
- Union Road & Center Street

EXISTING INTERSECTION OPERATIONS

Intersection turning movement volume, lane configurations, and traffic control data was used to calculate the levels of service at the study intersections for the weekday AM and PM peak hours. All study intersections are estimated to operate at an existing LOS D or better, as shown in **Table 4** below.

Table 4: Intersection Operations, Existing Conditions

No.	Intersection	Traffic Control[1]	Peak Hour	LOS[2] (Delay)[3]
1	Airport Way & Yosemite Avenue	Signal	AM	C (20.2)
			PM	C (34.6)
2	Yosemite Avenue & Winters Drive	Signal	AM	B (12.6)
			PM	B (16.2)
3	Union Road & Yosemite Avenue	Signal	AM	C (30.0)
			PM	D (36.0)
4	Union Road & Center Street	Signal	AM	B (14.2)
			PM	B (18.7)

Source: Kittelson & Associates, Inc. 2022.
Notes:
[1] Signal = Signalized Intersection
[2] LOS = Level of Service
[3] Delay = Average vehicle delay reported in seconds per vehicle.



Section 3
Regulatory Setting

REGULATORY SETTING

This section summarizes applicable federal, state, regional, and local plans, laws, and regulations that are relevant to this analysis. This information provides a context for the discussion related to the Project's consistency with applicable policies, plans, laws, and regulations.

FEDERAL REGULATIONS

This section summarizes federal agencies and laws pertinent to the proposed project.

FEDERAL HIGHWAY ADMINISTRATION

The Federal Highway Administration (FHWA) is the agency of the United States Department of Transportation (DOT) responsible for the federally funded roadway system, including the interstate highway network and portions of the primary state highway network.

STATE REGULATIONS

This section summarizes State of California agencies, regulations, and policies that pertain to transportation in Manteca.

CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The California Environmental Quality Act (CEQA) Guidelines, Appendix G Environmental Checklist Form describes four recommended categories of impacts related to transportation and traffic. These categories are recommended for formal environmental review of projects but are referenced as appropriate for this TIA.

A project's impact is considered to be significant if it would:

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 Guideline 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.

Significance criteria "b" is related to the implementation of vehicle miles traveled (VMT) as the primary performance metric consistent with Senate Bill 743 as described below.

SENATE BILL 743

Senate Bill 743 (SB 743) was signed into law in September 2013. Senate Bill 743 (Steinberg, 2013) required changes to the California Environmental Quality Act (CEQA) Guidelines regarding the analysis of transportation impacts. The purpose of SB 743 is to promote the reduction of greenhouse gas emissions, the development of multimodal transportation networks, and a diversity of land uses.

Prior to implementation of SB 743, CEQA transportation analyses of individual projects typically determined impacts on the circulation system in terms of roadway delay and/or capacity usage at specific locations, such as street intersections or freeway segments. The SB 743 changes include the elimination of auto delay, level of service (LOS), and other similar measures of vehicular capacity or traffic congestion as a basis for determining significant impacts.

Under SB 743, a project's effect on automobile delay shall not constitute a significant environmental impact. Therefore, level of service (LOS) and other similar vehicle delay or capacity metrics can no longer serve as transportation impact metrics for CEQA analysis. The California Office of Planning and Research (OPR) updated the CEQA Guidelines and provided a final technical advisory in December 2018, which recommends vehicle miles traveled (VMT) as the most appropriate measure of transportation impacts under CEQA. The California Natural Resources Agency certified and adopted the CEQA Guidelines including the Guidelines section implementing SB 743. The changes have been approved by the Office of the Administrative Law and are now in effect.

Revisions to CEQA transportation analysis requirements do not preclude the application of local general plan policies, municipal and zoning codes, conditions of approval, or any other planning requirements through a city's planning approval process. These requirements aim to ensure adequate operation of the transportation system in terms of transportation congestion measures related to vehicular delay and roadway capacity.

CALIFORNIA DEPARTMENT OF TRANSPORTATION

The California Department of Transportation (Caltrans) is the primary State agency responsible for transportation issues. As owner/operator of the State Highway System, Caltrans may review projects and plans as a commenting agency or responsible agency under the California Environmental Quality Act (CEQA). IN relation to this role, Caltrans published the Vehicle Miles Traveled-Focused Transportation Impact Study Guide" in May 2020. This replaced the "Guide for the Preparation of Traffic Impact Studies" (December 2002), which established Measures of Effectiveness based on level of service targets.

Caltrans recommends following the guidance on methods of VMT assessment found in OPR's Technical Advisory. Caltrans comments on a CEQA document may note methodological deviations from those methods and may recommend that significance determinations and mitigation be aligned with state greenhouse gas reduction goals as articulated in OPR's guidance, the California Air Resources Board's Scoping Plan, and related documentation.

REGIONAL REGULATIONS

This section summarizes regional agencies, plans, and policies that pertain to transportation in Manteca.

SAN JOAQUIN COUNCIL OF GOVERNMENTS REGIONAL CONGESTION MANAGEMENT PROGRAM

The San Joaquin Council of Governments (SJCOG) is responsible for the Regional Congestion Management Program (RCMP). The purpose of the RCMP is to monitor congestion, identify congestion problems, and establish a programming mechanism aimed at reducing congestion. Designation of a regional transportation system supports RCMP monitoring activities and focuses the implementation of the RCMP on a core network of key transportation facilities that facilitate regional travel within San Joaquin County.

The RCMP network includes the following facilities within the project study area:

- Airport Way
- Union Road
- Yosemite Avenue

The RCMP also designates multimodal corridors where quality of transportation service is monitored for transit, bicycles, and pedestrians as well as vehicles. Yosemite Avenue from Airport Way to Northwoods Avenue/Commerce Avenue is designated as a multimodal corridor. The project is located adjacent to a portion of this corridor.

Prior to 2021, the RCMP included LOS standards for the RCMP network that would affect the evaluation of local development traffic impacts. Consistent with the implementation of SB 743 CEQA streamlining legislation, the 2021 RCMP discontinues the use of LOS for the evaluation of RCMP congestion deficiencies.

The RCMP identifies deficient corridors based on combined speed-based congestion and reliability metrics. None of the deficient corridors identified in the 2021 RCMP are located within the project study area.

LOCAL REGULATIONS

This section summarizes City policies and regulations that pertain to transportation in Manteca.

MANTECA GENERAL PLAN

The 2021 update of the Manteca General Plan includes the following policies relevant to the transportation evaluation of the project are summarized in **Table 5**.

Table 5: Selected Manteca General Plan Policies

No.	Policy
C-1.1	Strive to balance levels of service (LOS) for all modes (vehicle, transit, bicycle, and pedestrian) to maintain a high level of access and mobility, while developing a safe, complete, and efficient circulation system. The impact of new development and land use proposals on VMT, LOS, and accessibility for all modes should be considered in the review process.
C-1.2	To the extent feasible, strive for a vehicular LOS of D or better during weekday AM and PM peak hours at all streets and intersections, except in the Downtown area or in accordance with Policy C-1.3.
C-1.3	At the discretion of the City Council or Planning Commission, certain locations may be allowed to fall below the City's LOS standard established by C-1.2 under the following circumstances: ■ a. Where constructing facilities with enough capacity to provide LOS D is found to be unreasonably expensive. ■ b. Where conditions are worse than LOS D and caused primarily by traffic from adjacent jurisdictions. ■ c. Where maintaining LOS D will be a disincentive to use transit and active transportation modes (i.e., walking and bicycling) or to the implementation of transportation or land use improvements that would reduce vehicle travel. Examples include roadway or intersection widening in areas with substantial pedestrian activity or near major transit centers.
C-2.2	Design roadway improvements to occur in a contiguous, orderly fashion and strive to build roadway improvements in advance of new development particularly when addressing existing deficiencies. However, major circulation improvements shall be constructed no later than when abutting lands develop or redevelop, with dedication of right-of-way and construction of improvements, or participation in construction of such improvements, required as a condition of approval.
C-2.3	Require new development to pay a fair share of the costs of street and other transportation improvements based on impacts in conformance with the goals and policies established in this Circulation Element and the Public Facilities Implementation Program (PFIP).
C-2.13	Require development projects to arrange streets in an interconnected block pattern, so that pedestrians, bicyclists, and drivers are not forced onto arterial streets for inter- or intra-neighborhood travel. This approach will also ensure safe and efficient movement of emergency responders and ensure that vehicle miles traveled are minimized within the community. The street pattern shall include measures to provide a high level of connectivity and decrease vehicle miles traveled.

No.	Policy
C-2.14	Residential subdivisions with lots fronting on an existing arterial street shall provide for separate roadway access to the maximum extent feasible, with access to residential lots provided from residential or collector streets. For those properties that currently front arterial streets, consideration should be given to providing separate roadway access as a condition of approval for any redevelopment or subdivision of the property.
C-2.15	Ensure that development and infrastructure projects are designed in a way that provides pedestrian and bicycle connectivity to adjacent neighborhoods and areas (such as ensuring that sound walls, berms, and similar physical barriers are considered and gaps or other measures are provided to ensure connectivity).
C-2.19	In the development of new projects, give special attention to maintaining/ensuring adequate corner-sight distances appropriate for the speed and type of facility, including intersections of city streets and private access drives and roadways.

Source: Manteca General Plan, March 2021, pp, 4-2 to 4-11

TRANSPORTATION IMPACT ANALYSIS REQUIREMENTS

The City of Manteca does not have a document that establishes specific requirements for transportation impact analysis studies. The methodologies and standards used in this TIA are based on the General Plan, state requirements and guidance, prior studies conducted in the City of Manteca, and industry best practices.



Section 4
CEQA Transportation Analysis

CEQA TRANSPORTATION ANALYSIS

This study evaluates the project for potential transportation impacts relative to the four impact types presented in the CEQA checklist:

e. Conflicts with circulation system programs
f. Vehicle-miles of travel (VMT)
g. Hazards
h. Emergency access

CONFLICTS WITH PROGRAMS

The project would have an impact if it would conflict with a program, plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities.

The project would be consistent with the City of Manteca General Plan and PFIP in terms of provisions for roadways, bicycle, and pedestrian facilities if the following are met:

- The project frontage along Yosemite Avenue currently provides sidewalk, curb, gutter, and a class 2 bike lane along Yosemite Avenue. Any modifications to the project frontage should be designed consistent with city plans, codes, and regulations.
- Improvements to the intersection of Yosemite Avenue & Winters Drive at the south end of the project site should include signal modifications to provide a full access, signalized entrance to the project site and meet local design requirements.
- The project proposes to extend Center Street through the site (extending west of the existing alignment). The design of the Center Street extension is recommended to provide sidewalk with street trees along both sides of the road, consistent with local design standards and consistent with existing sidewalk along Center Street east of the project site.
- It is recommended that the project provide ADA compliant sidewalks along both sides of internal roadways and throughout the project site to enhance local pedestrian circulation for all users.
- The project is not anticipated to conflict with other road, transit, bicycle, or pedestrian plans documented by the city within the study area.

Impact 1: Less than significant

Mitigation 1: No mitigation required

VEHICLE MILES OF TRAVEL

The project was assessed for VMT to comply with SB 743 requirements and CEQA Guideline section 15064.3, subdivision (b).

The City of Manteca does not have published guidelines for VMT analysis for development projects. The methodology used is similar to a prior Manteca transportation impact study

provided as an example[1]. Project VMT per capita to determine impact findings for the project is estimated based on the Manteca/Lathrop Travel Demand Model. Should the project have significant impacts for VMT, trip reductions with appropriate TDM measures would be recommended.

SCREENING CRITERIA

The proposed development was evaluated against the screening criteria in the Office of Planning and Research (OPR) Technical Advisory. The following criteria are 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 Prose Manteca Residential Development Project would generate more than 110 trips per day, would not be within ½ mile of a major transit stop, would not have a high percentage of affordable housing units, and would not be in an area already designated as a low VMT area. Since the Project would not meet the screening criteria, a VMT analysis is required.

VMT IMPACT CRITERIA

The methodology used in other Manteca studies is based on a comparison of future VMT conditions with the project to existing baseline VMT conditions. The calculated residential VMT for the "with project" scenario is compared with baseline citywide VMT per single family residential household. If the development would generate vehicle travel exceeding 15 percent below the established baseline, there is a significant impact.

The travel model developed for the City of Manteca General Plan Update was used to develop baseline (2019) VMT per single family residential household. The established baseline VMT per single family household is 78.6. Therefore, single family residential projects that exceed 66.8 VMT per household (15 percent below base year levels) would be considered to have a significant transportation impact. Projects that generate less than 66.8 VMT per household would be considered to have a less than significant transportation impact.

PROJECT VMT ANALYSIS

The project was added to the travel model, the total daily VMT was calculated based on the results and is summarized in **Table 6** below. The project VMT per household would be 40.0% percent lower than the baseline VMT per household, which is a greater reduction than the

[1] Fehr & Peers, "Lumina at Machado Ranch – Transportation Analysis," June, 2021

threshold of 15 percent lower than the baseline. Therefore, the project would there not cause a significant VMT impact.

Table 6: Project VMT Evaluation

Scenario	Residential Units	Daily VMT	VMT per Unit
2019 Manteca Baseline	4,788	376,243	78.6
2040 Project	420	19,811	47.2
Comparison to Baseline			-40.0%

Source: Kittelson & Associates 2022, based on Manteca/Lathrop Travel Demand Model

Impact 2: Less than significant

Mitigation 2: No mitigation required

HAZARDS

The project would have an impact if it would substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment).

- The project proposes to provide access via two points – the extension of Center Street through the project site and a signalized driveway along Yosemite Avenue at the intersection of Winters Drive - as shown in the conceptual site plan provided in **Figure 2.** The proposed access points are not anticipated to introduce hazardous geometric design features if designed consistent with accepted design guidelines for safety. The relatively straight and level alignment of Center Street and Yosemite Avenue near the proposed access points should not introduce inadequate sight distance.
- The proposed roadway geometries/cross-sections and design features should be reviewed as part of the City's site plan review to confirm that proposed designs are consistent with the local code and design standards and to confirm that design features (such as trees, fountains, on-street parking, etc.) do not limit site distance
- The internal project streets should be designed to meet the City's geometric design standards and not create hazardous driving conditions.
- ADA compliant sidewalk and ramps (onsite and along the project frontages) is recommended so that pedestrians would be separated from vehicle traffic.

Impact 3: Less than significant

Mitigation 3: No mitigation required

EMERGENCY ACCESS

The project would have an impact if it would result in inadequate emergency access.

- The project proposes extend Center Street to the west and construct a fourth (north leg) at the intersection of Yosemite Avenue & Winters Drive as shown in the site plan and described in detail in other sections of this report. Vehicular access to all individual residential buildings within the project site would be provided per the proposed site plan

and it is recommended that Center Street and all internal residential streets to be designed to accommodate emergency vehicles, which should be reviewed prior to finalization of the site plan.

Impact 4: Less than significant

Mitigation 4: No mitigation required



Section 5
Local Transportation Analysis

LOCAL TRANSPORTATION ANALYSIS

The local transportation impact analysis assesses how the study area's transportation system would operate with the implementation of the proposed project.

PROJECT TRIP GENERATION

Automobile trip generation by the project was derived from rates contained in the Institute of Transportation Engineers (ITE) *Trip Generation Manual* 11th Edition.

The proposed land use for the proposed project consists of low-rise multifamily homes. The proposed residential development type matches ITE land use code 220 Multifamily Housing (Low-Rise) which is defined as:

- **Multifamily Housing (Low-Rise) (ITE 220)** - Low-rise multifamily housing includes apartments, townhouses, and condominiums located within the same building with at least three other dwelling units and that have two or three floors (levels). Various configurations fit this description, including walkup apartment, mansion apartment, and stacked townhouse.

Trip generation estimates are based upon the ITE fitted curve equations and rates derived from the fitted curve equation results are provided in **Table 7** for informational purposes.

Table 7: Trip Generation Rates

Land Use	Unit	Daily	Weekday AM Peak Hour			Weekday PM Peak Hour		
			Total	In	Out	Total	In	Out
Multifamily Housing (Low-Rise) (220)	Dwelling Units	6.59	0.36	0.09	0.28	0.48	0.30	0.18

Source: Institute of Transportation Engineers, *Trip Generation Manual*, 11th Edition.
Note: Rates based upon dividing fitted equation results by number of dwelling units.

Table 8 summarizes the ITE trip generation for the proposed 420 single family residential units that will be constructed as part of this Project.

Table 8: Proposed Project Trip Generation

Land Use	Dwelling Units	Daily	Weekday AM Peak Hour			Weekday PM Peak Hour		
			Total	In	Out	Total	In	Out
Multifamily Housing (Low-Rise) (220)	420	2,768	153	37	116	201	127	74

Source: Kittelson & Associates, 2021.
Note: ITE fitted curve equations used for weekday daily (R^2=0.86), as well as AM peak hour (R^2=0.79) and PM peak hour (R^2=0.84) of adjacent street traffic. Daily: T = 6.41(X) + 75.31, AM Peak: T = 0.31(X) + 22.85, and PM Peak: T = 0.43(X) + 20.55.

PROJECT TRIP DISTRIBUTION

Project trip distribution estimates refers to the percentages of project trips along routes leading to and from the project. The project's trip distribution was estimated based upon the Manteca/Lathrop Travel Demand Model as well knowledge of the study area and traffic patterns. The project was coded into the travel demand model and a "select zone" assignment was used to track the estimated trips to and from the Project site for the AM and PM peak periods and hours.

The following summarizes the trip distribution estimates for project traffic (**Figure 7**):

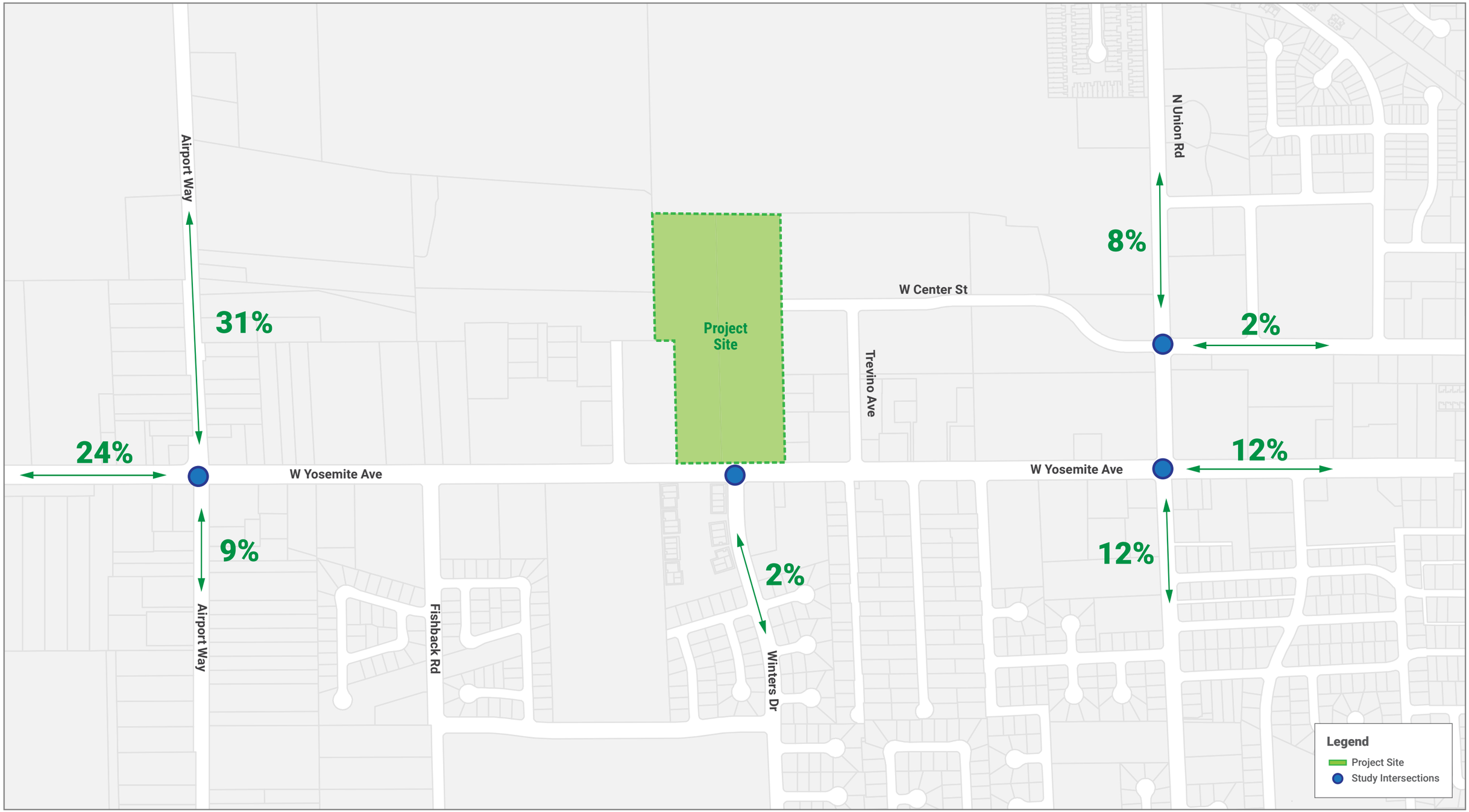
- 31% along Airport Way, north of Yosemite Avenue
- 9% along Airport Way, south of Yosemite Avenue
- 24% along Yosemite Avenue, west of Airport Way
- 2% along Winters Drive, south of Yosemite Avenue
- 12% along Union Road, south of Yosemite Avenue
- 12% along Yosemite Avenue, east of Union Road
- 2% along Center Street, east of Union Road
- 8% along Union Road, north of Center Street

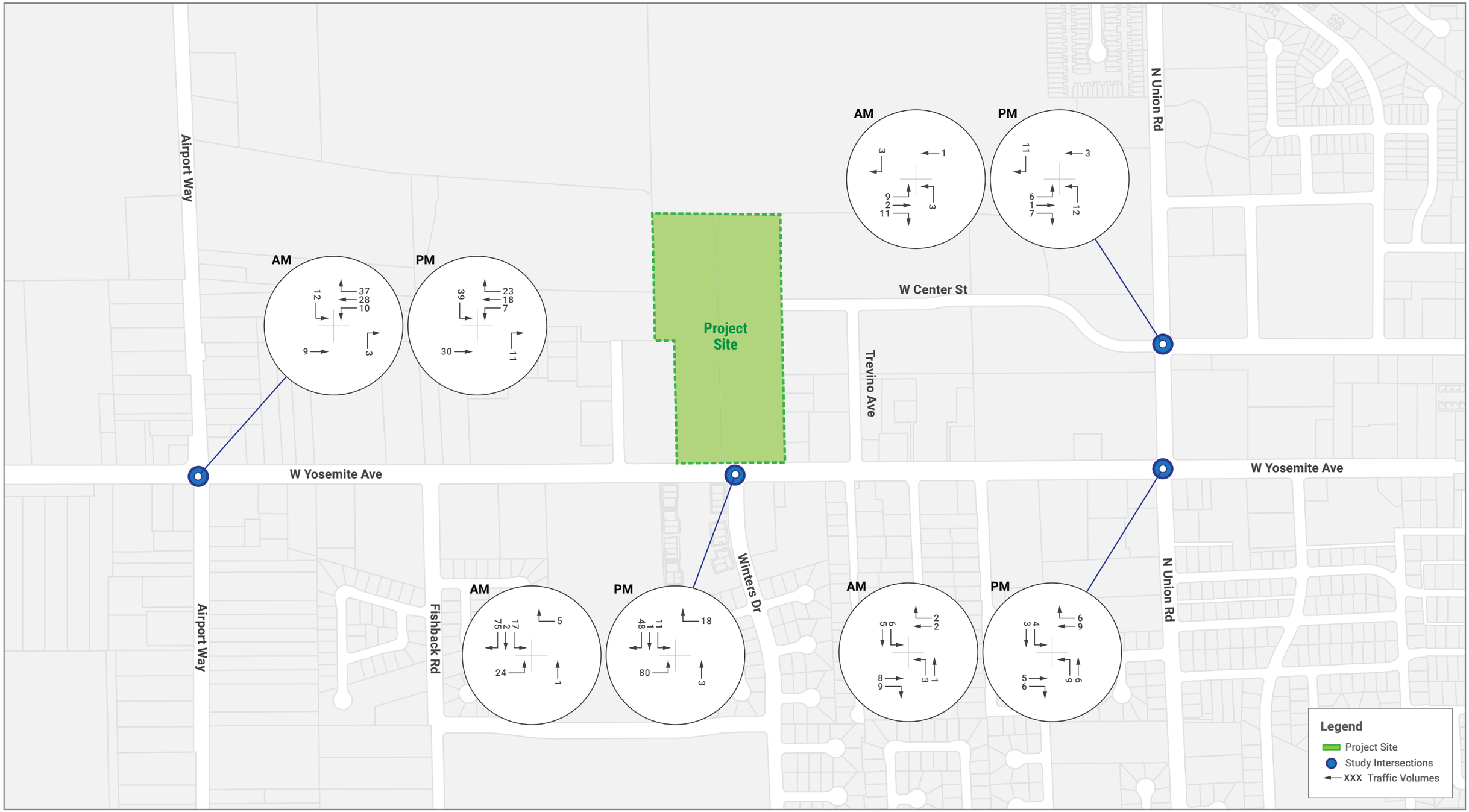
As described n previous sections of this report, one full access project driveway would be provided at the south end of the development and constructed as the north leg to the intersection of Yosemite Avenue & Winters Drive. Another access point would be at the Center Street extension through the project site.

The preliminary site plan is shown in **Figure 2** and the project is proposed to be buildout in one single phase. Therefore, it is assumed that all recommended driveways will be constructed by project buildout and are analyzed in Existing plus Project and Cumulative plus Project conditions.

It is anticipated that Center Street could be extended to the west of the project site in the future when/if the vacant land adjacent to the project's western border is developed. Providing a third project access point would be expected to reduce project traffic at the two access points evaluated in this study but is conservatively not assumed in any of the quantitative analyses completed as part of this study due to the unknown nature of the future of the potential development of the adjacent property.

The estimated project trip assignment to the study facilities, based on the trip generation and distribution estimates described above is shown in **Figure 8**.


Airport Way
N Union Rd
W Center St
Project Site
Trevino Ave
W Yosemite Ave
W Yosemite Ave
Airport Way
Fishback Rd
Winters Dr
31%
8%
2%
24%
12%
9%
2%
12%
Legend
Project Site
Study Intersections
Scale in Feet
0
600
North


Airport Way
N Union Rd
W Center St
Trevino Ave
W Yosemite Ave
Fishback Rd
Winters Dr
Project Site
AM
PM
37
28
10
12
9
3
23
18
7
39
30
11
3
1
9
2
11
3
11
3
6
1
7
12
5
17
2
75
24
1
18
11
1
48
80
3
2
2
6
5
8
9
1
3
6
9
4
3
5
6
6
9
Legend
Project Site
Study Intersections
XXX Traffic Volumes
Scale in Feet
0
600
North

EXISTING PLUS PROJECT TRAFFIC OPERATIONS

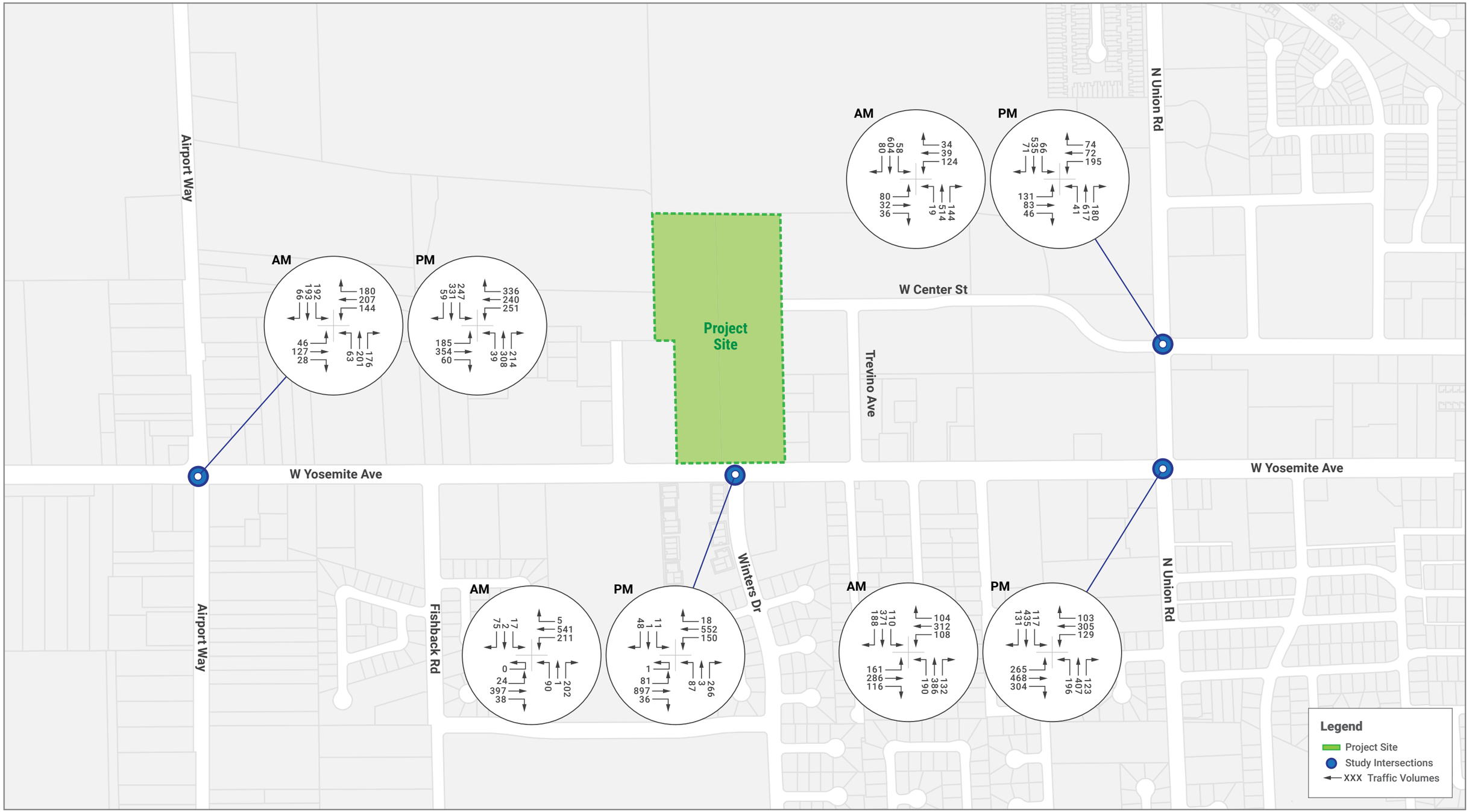
Intersection operations were assessed for Existing plus Project conditions and compared to existing conditions. Existing plus Project operational analyses assume existing roadway geometries, traffic control, and existing traffic volumes plus project traffic. Existing plus Project weekday AM and PM peak hour volumes are shown in **Figure 9** and the operational LOS and delay results are summarized in **Table 9**.

All study intersections would operate at LOS D or better with the project during Existing plus Project Conditions, consistent with General Plan policies. With the addition of project traffic, the Airport Way & Yosemite Avenue intersection is expected to operate at acceptable LOS D during the PM peak hour (compared to LOS C without project traffic).

Table 9: Intersection Operations, Existing Plus Project Conditions

No.	Intersection	Traffic Control[1]	Peak Hour	Existing LOS[2] (Delay)[3]	Existing + Project LOS[2] (Delay)[3]
1	Airport Way & Yosemite Avenue	Signal	AM	C (20.2)	C (21.5)
			PM	C (34.6)	D (38.8)
2	Yosemite Avenue & Winters Drive/Project Dwy[4]	Signal	AM	B (12.6)	B (14.4)
			PM	B (16.2)	B (18.4)
3	Union Road & Yosemite Avenue	Signal	AM	C (30.0)	C (30.4)
			PM	D (36.0)	D (37.0)
4	Union Road & Center Street	Signal	AM	B (14.2)	B (14.8)
			PM	B (18.7)	B (19.1)

Source: Kittelson & Associates, Inc. 2022.
Notes:
[1] Signal = Signalized Intersection
[2] LOS = Level of Service
[3] Delay = Average vehicle delay reported in seconds per vehicle.
[4] This intersection is converted to a four-leg intersection with the project. It is currently a three-leg intersection.


Airport Way
N Union Rd
W Center St
Trevino Ave
W Yosemite Ave
Project Site
Fishback Rd
Winters Dr
AM
PM
192
193
66
180
207
144
46
127
28
176
201
63
247
331
59
336
240
251
185
354
60
214
308
39
58
604
80
34
39
124
80
32
36
144
514
19
66
535
71
74
72
195
131
83
46
180
617
41
17
72
75
5
541
211
0
24
397
38
1
90
202
11
1
48
18
552
150
1
81
897
36
3
87
266
110
371
188
104
312
108
161
286
116
132
386
190
117
435
131
103
305
129
265
468
304
123
407
196
Legend
Project Site
Study Intersections
XXX Traffic Volumes
Scale in Feet
0
600
North

CUMULATIVE TRAFFIC OPERATIONS

The Cumulative and Cumulative plus Project Conditions evaluations analyzes how the study area's transportation system would operate with development growth estimates and the anticipated changes of the surrounding community by the year 2040. The future development of the surrounding community and associated traffic changes by 2040 were derived from the Manteca/Lathrop Travel Demand Model. This model includes all of the approved and reasonably foreseeable growth anticipated in Manteca and the surrounding jurisdictions by the 2040 horizon year. The model's assumed future development within the City of Manteca is consistent with the City's adopted General Plan.

TRANSPORTATION IMPROVEMENTS

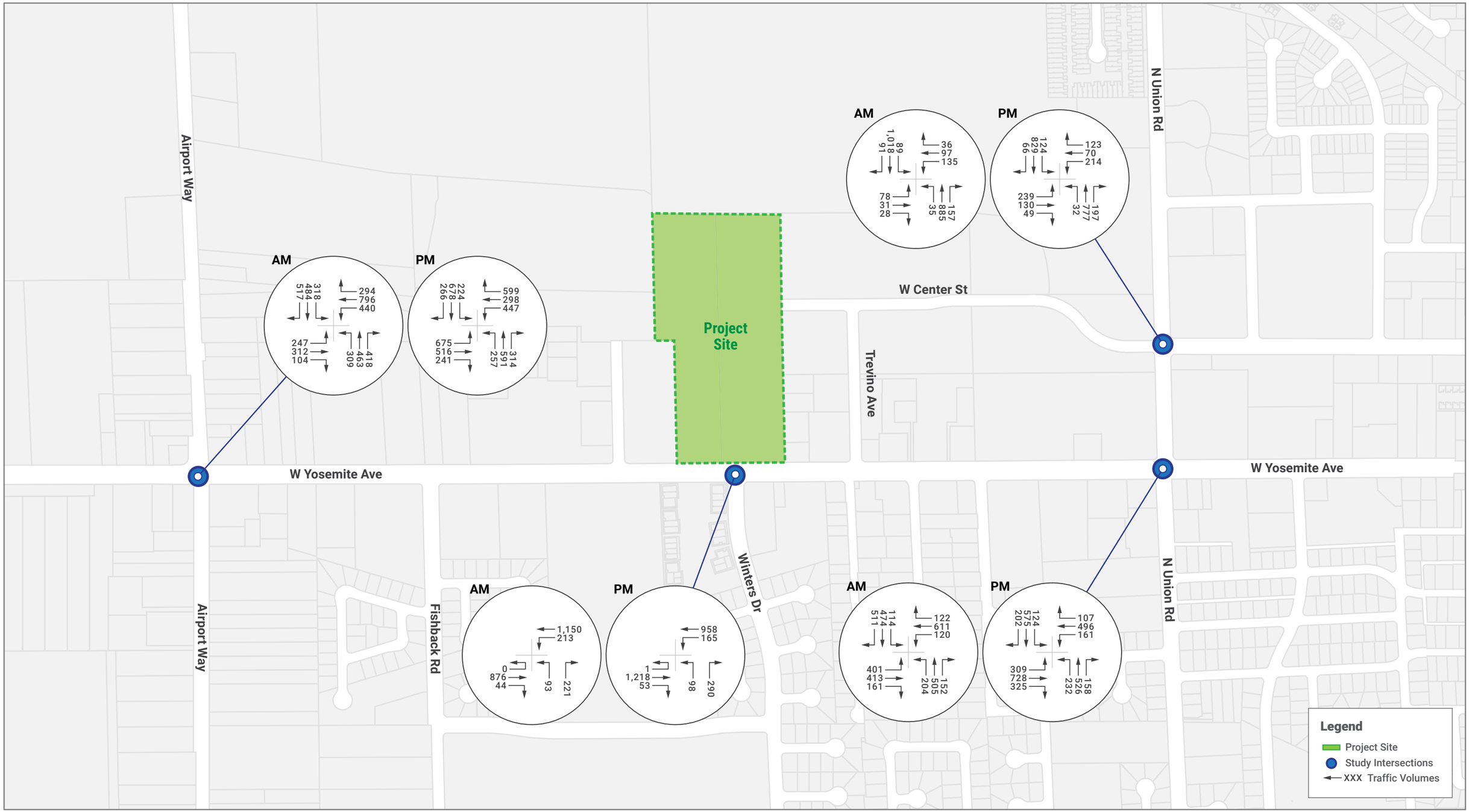
The Cumulative Conditions assume street improvements documented in the Transportation Public Facilities Implementation Plan (PFIP) version effective January 1, 2018. The following summarizes the planned roadway capacity improvements within the project study area based upon the PFIP:

- Airport Way (between Daniels Street and Yosemite Avenue):
  - 2-lane existing cross section widened to 6-lane cross section. 14-foot-wide landscaped median and four interior lanes (Plate E-2.06 in PFIP).
- Airport Way (Yosemite Avenue to French Camp Road):
  - 2-lane existing cross section widened to 4-lane cross section. 36-foot-wide landscaped median and 2 interior lanes (Plate E-2.07 in PFIP).

TRAFFIC FORECASTS

The traffic forecasts for Cumulative Conditions are based on the Manteca/Lathrop Travel Demand Model. The travel model was recently updated in support of the 2021 Manteca General Plan Update and includes future assumptions for land use development and transportation improvements consistent with the General Plan.

Traffic forecasts for specific intersections were based on an incremental adjustment methodology to minimize the effects of differences between the travel model and observed traffic counts. For each study intersection turning movement, the increment was calculated between the model's 2018 base year and the model's 2040 forecast traffic volumes and added to the observed traffic count to create the future AM and PM peak hour intersection turning movement traffic volumes. The adjusted turn movements were then checked to ensure logical growth and continuity between locations.


Airport Way
N Union Rd
W Center St
Trevino Ave
W Yosemite Ave
Fishback Rd
Winters Dr
Project Site
AM
PM
318
484
517
294
796
440
247
312
104
309
463
418
224
678
266
599
298
447
675
516
241
257
591
314
1,018
91
89
36
97
135
78
31
28
35
885
157
124
829
66
123
70
214
239
130
49
32
777
197
0
876
44
93
221
1,150
213
1
1,218
53
98
290
958
165
114
474
511
122
611
120
401
413
161
204
505
152
309
728
325
526
232
158
107
496
161
Legend
Project Site
Study Intersections
XXX Traffic Volumes
Scale in Feet
0
600
North

CUMULATIVE INTERSECTION OPERATIONS

Intersection operations were assessed for Cumulative Conditions (2040 growth without the Project). The operations analysis assumes intersection improvements consistent with the planned improvement information published in the PFIP as listed above. Cumulative conditions intersection geometries assumed in these analyses are summarized and provided in the **Appendix**. Cumulative peak hour traffic volumes without project traffic are shown in **Figure 10**.

Intersection turning movement volumes, lane configurations, and traffic control were used to estimate the average vehicle delay and levels of service at the study intersections for the AM and PM peak hours (**Table 10**). Based on the analysis results, all study intersections are anticipated to operate at an acceptable LOS D or better during the Cumulative Conditions weekday AM and PM peak hours without project traffic, except for the following:

- Airport Way & Yosemite Ave (LOS E during AM peak hour and LOS F during PM peak hour)
- Union Road & Yosemite Ave (LOS F during AM peak hour and LOS E during PM peak hour)

Table 10: Intersection Operations, Cumulative Conditions

No.	Intersection	Traffic Control[1]	Peak Hour	LOS[2] (Delay)[3]
1	Airport Way & Yosemite Avenue	Signal	AM	**E (72.3)**
			PM	**F (133.2)**
2	Yosemite Avenue & Winters Drive	Signal	AM	B (12.1)
			PM	B (19.2)
3	Union Road & Yosemite Avenue	Signal	AM	**F (104.2)**
			PM	**E (78.1)**
4	Union Road & Center Street	Signal	AM	B (15.9)
			PM	C (27.8)

Source: Kittelson & Associates, Inc. 2022.
Notes:
[1] Signal = Signalized Intersection
[2] LOS = Level of Service
[3] Delay = Average vehicle delay reported in seconds per vehicle.

CUMULATIVE PLUS PROJECT INTERSECTION OPERATIONS

Intersection operations were evaluated in this study for Cumulative (2040 growth without the project) and Cumulative plus Project conditions and the analysis results are shown in **Table 11**. The operational analyses assume future study intersection and roadway improvements per planned improvement information published in the PFIP and summarized in the previous section of the document.

Cumulative conditions intersection geometries assumed in these analyses are summarized and provided in the **Appendix** and the assumed project driveway control/geometry are described in the project description section of this report. Cumulative plus Project peak hour traffic volumes are shown in **Figure 11**.

All study intersections operate at an acceptable LOS D or better during the Cumulative and Cumulative plus Project Conditions weekday AM and PM peak hours except for the following:

- Airport Way & Yosemite Ave (LOS E during AM peak hour and LOS F during PM peak hour)
- Union Road & Yosemite Ave (LOS F during AM peak hour and LOS E during PM peak hour)

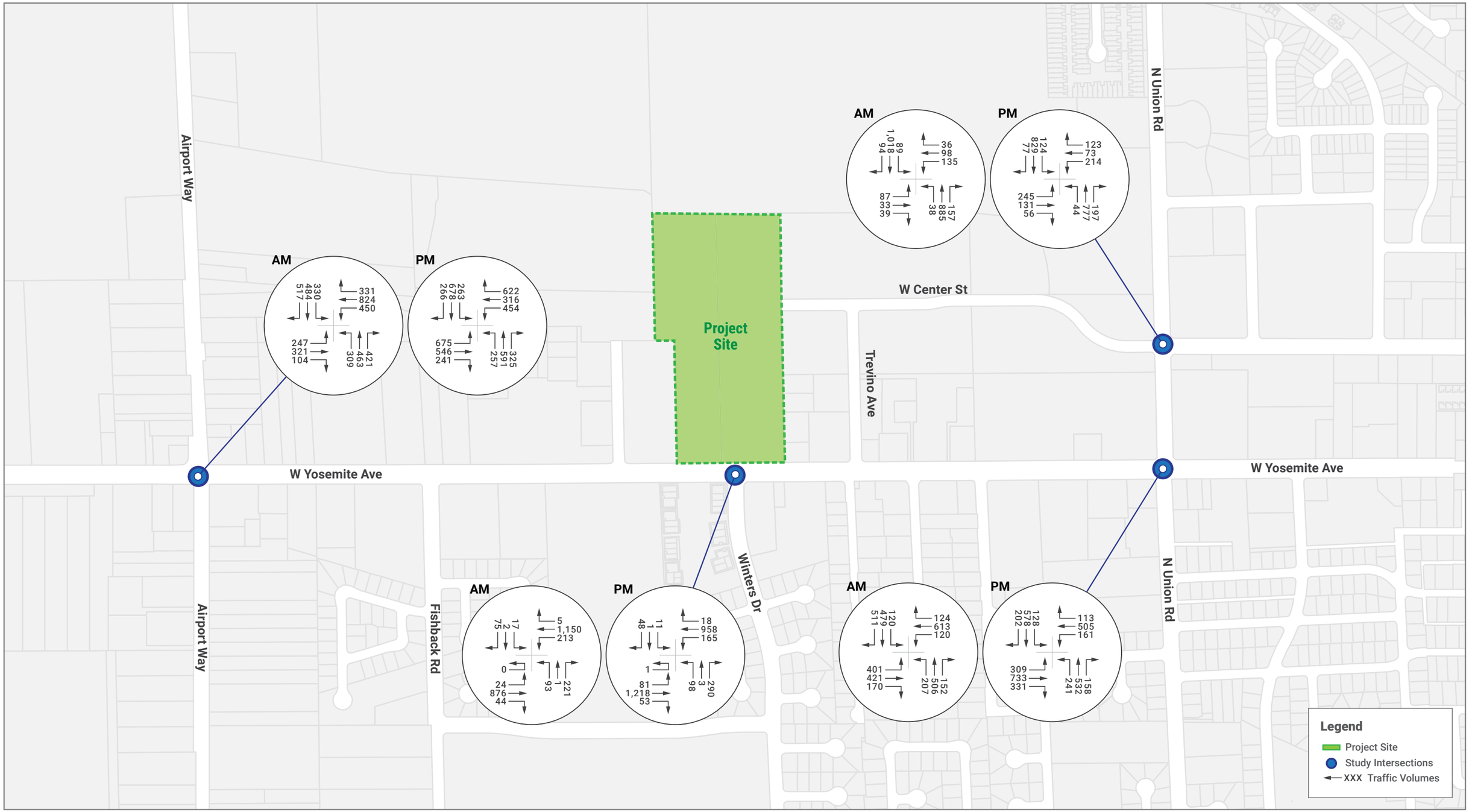
Table 11: Intersection Operations, Cumulative Plus Project Conditions

No.	Intersection	Traffic Control[1]	Peak Hour	Cumulative LOS[2] (Delay)[3]	Cumulative + Project LOS[2] (Delay)[3]
1	Airport Way & Yosemite Avenue	Signal	AM	**E (72.3)**	**E (78.1)**
			PM	**F (133.2)**	**F (139.8)**
2	Yosemite Avenue & Winters Drive/Project Dwy[4]	Signal	AM	B (12.1)	B (14.6)
			PM	B (19.2)	C (22.4)
3	Union Road & Yosemite Avenue	Signal	AM	**F (104.2)**	**F (105.4)**
			PM	**E (78.1)**	**E (79.9)**
4	Union Road & Center Street	Signal	AM	B (15.9)	B (16.6)
			PM	C (27.8)	C (28.7)

Source: Kittelson & Associates, Inc. 2022.
Notes:
[1] Signal = Signalized Intersection
[2] LOS = Level of Service
[3] Delay = Average vehicle delay reported in seconds per vehicle.
[4] This intersection is converted to a four-leg intersection with the project. It is currently a three-leg intersection.

The travel demand model indicates considerable increases in traffic volumes along Yosemite Avenue, Union Road, and Airport Way by the 2040 horizon year. Therefore, the intersections along Yosemite Avenue, Airport Way, and Union Road are anticipated to experience traffic volume demands that exceed capacity, resulting in LOS E and F conditions in during the weekday AM and PM peak hours.

Based on the analysis results, the project is anticipated to cause incremental increases in delays at the intersections studied. The project does not change Cumulative Conditions LOS from acceptable to unacceptable at any of the study intersections and delay increases due to the project at the deficient intersections of Airport Way & Yosemite Avenue and Union Road & Yosemite Avenue are anticipated to range between 1 percent and 8 percent.


Airport Way
N Union Rd
W Center St
Trevino Ave
W Yosemite Ave
Project Site
Fishback Rd
Winters Dr
AM
PM
330 484 517
331 824 450
247 321 104
263 678 266
622 316 454
675 546 241
421 463 309
325 591 257
1,018 89 94
36 98 135
87 33 39
157 885 38
124 829 77
123 73 214
245 131 56
197 777 44
5 1,150 213
17 2 75
0 24 876 44
1 93 1 221
18 958 165
11 1 48
1 81 1,218 53
290 3 98
120 479 511
124 613 120
401 421 170
152 506 207
128 578 202
113 505 161
309 733 331
158 532 241
Legend
Project Site
Study Intersections
XXX Traffic Volumes
Scale in Feet
0
600
North

Recommended Intersection Improvements

The following improvements are recommended to provide future intersection operations consistent with the General Plan Policy C-1.2 which specifies that the city shall strive for LOS D operations outside the Downtown area.

Airport Way & Yosemite Avenue

The PFIP indicates that Airport Way will have two through lanes in each direction along with exclusive right-turn lanes for the northbound and southbound approach. These improvements would alleviate future traffic congestion and improve delays; however, deficient LOS is expected even with these capacity improvements during the weekday AM and PM peak hour conditions. In addition to the planned widening published in the PFIP, it is recommended that each approach at this study intersection provide dual left-turn lanes in place of the existing single left-turn lanes as well as an exclusive right-turn lane on the westbound approach.

Union Road & Yosemite Avenue

No improvements are planned in the PFIP at this intersection, however, the operational results for this location during Cumulative Conditions and Cumulative Plus Project Conditions estimate unacceptable LOS F and LOS E during the AM and PM peak hours, respectively. Installation of an additional eastbound left-turn lane, northbound left-turn lane, southbound right-turn lane, and signal timing optimization at Union Road & Yosemite Avenue is recommended to provide acceptable LOS D operations.

Table 12: Intersection Operations, Cumulative Plus Project with Recommended Improvements

No.	Intersection	Traffic Control[1]	Peak Hour	Cumulative + Project LOS[2] (Delay)[3]
1	Airport Way & Yosemite Avenue	Signal	AM	D (46.3)
			PM	D (54.6)
3	Union Road and Yosemite Avenue	Signal	AM	D (40.5)
			PM	D (54.8)

Source: Kittelson & Associates, Inc. 2022.
Notes:
[1] Signal = Signalized Intersection
[2] LOS = Level of Service
[3] Delay = Average vehicle delay reported in seconds per vehicle.

PROJECT SITE CIRCULATION

The project site plan was evaluated in terms of access, circulation, and parking, which is discussed in the follow sections.

The project proposes to provide two access points – one connecting to the signalized intersection of Yosemite Avenue and Winters Drive and along a Center Street extension. For the main southern project's proposed driveway on the intersection of Yosemite Avenue and Winters Drive, a single entrance lane and a single a shared through/left/ right southbound exit lane is anticipated to provide acceptable operations. As noted in the traffic operations analysis, the Yosemite Avenue & Winters Drive/Project Driveway intersection would operate at acceptable LOS as a three-leg intersection without construction of the project and as a four-leg intersection with construction of the project. Along Center Street within the project site, internal project is anticipated to provide side-street stop control for the northbound and southbound approaches, similar to the residential development to the east.

Future development of parcels west of the Project site and additional extension of Center Street to the west may provide the opportunity for a third project access point in the future, however, is not assumed in the analyses presented in this report as future has not been approved.

Sidewalks are shown in the project site plan along both sides of all streets within the site and along the site frontages on Yosemite Avenue and Center Street. The sidewalks should be constructed consistent with the City's policies and design standards and ADA compliant.

EMERGENCY ACCESS

The project proposes to provide multiple ingress/egress points that could be accessed by emergency vehicles. One point of access will be at the signalized intersection of Yosemite Avenue & Winters Drive while multiple driveways will be provided along the north and south sides of the Center Street extension. A potential additional connection to the local transportation network is anticipated if Center Street is extended to the west when the vacant land west of the Project site is developed.

Two emergency vehicle access only ingress/egress points will be provided along Yosemite Avenue, with one located east of the Project entrance and another west of the entrance. One emergency vehicle only access point will be provided along the south side of the Center Street extension. All emergency vehicle only access points will be gate controlled.

Center Street is proposed to provide a 64-foot cross-section, including on-street parking and sidewalk. Parking aisles within the site and adjacent to the residential buildings propose to provide 26-foot drive aisles and 16-foot parking spaces. All project roadways and drive aisles are proposed to accommodate a single vehicle travel lane in each direction and allow on-street parking. It is recommended that the detailed site plan be reviewed when provided to confirm that adequate turning space for larger emergency vehicles can be accommodated.

PARKING

The Manteca Municipal Code §17.52.050 includes the following requirements for single-family residential uses:

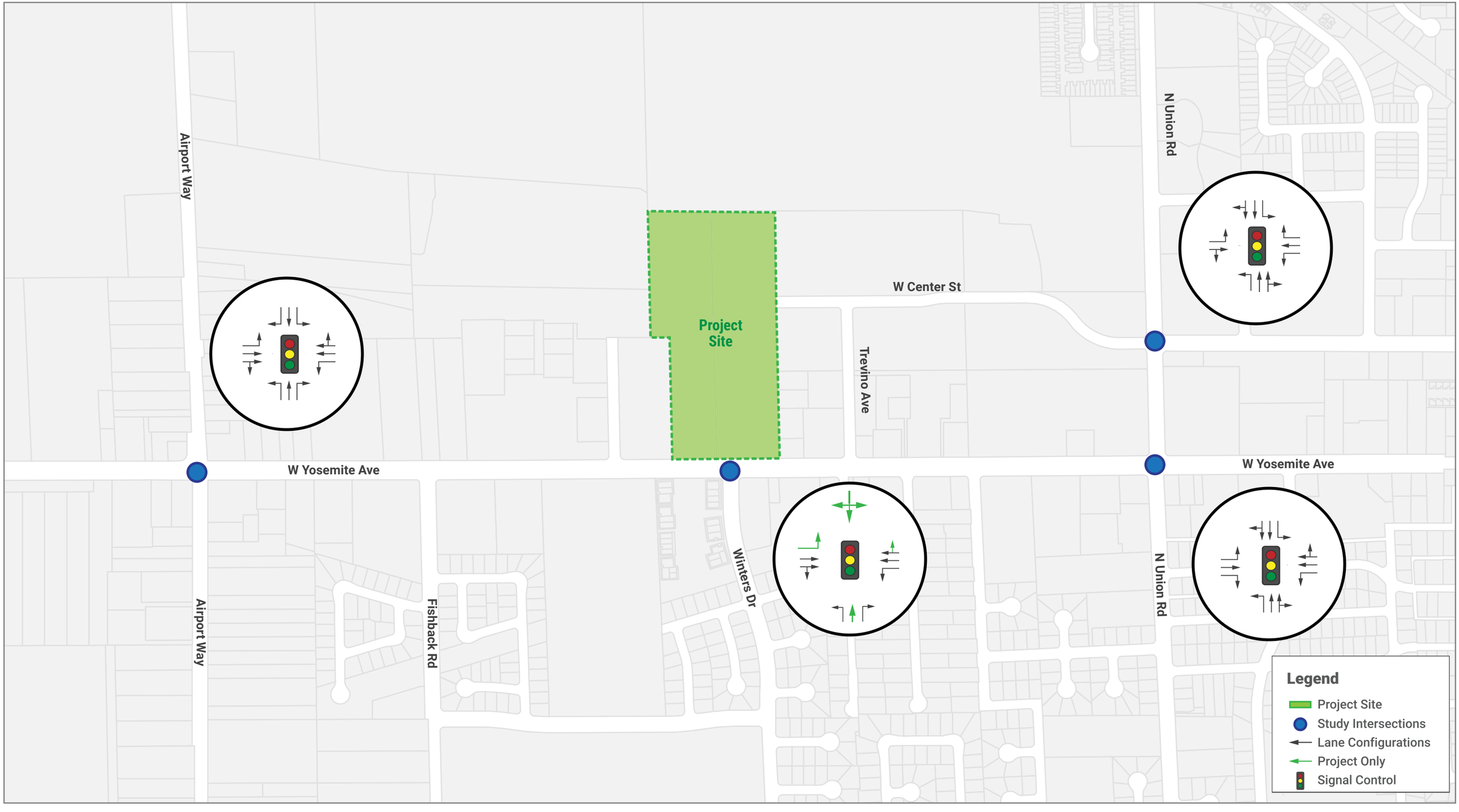
- Multifamily Residential Units: covered space per dwelling unit plus 0.5 space per 1-bedroom unit, and one space per 2- or more bedroom units

To satisfy Municipal Code requirements, it is recommended that parking be provided consistent with the Multifamily Residential Units requirement. According to these requirements, each of the 190 1-bedroom units would require 1.5 parking spaces, or 285 spaces, and each of the 230 2-bedroom units would require two parking spaces, or 460 spaces, for a total of 745 required spaces. The proposed project would provide 746 surface parking spaces On-street parking is anticipated along the internal streets, consistent with similar nearby residential developments.



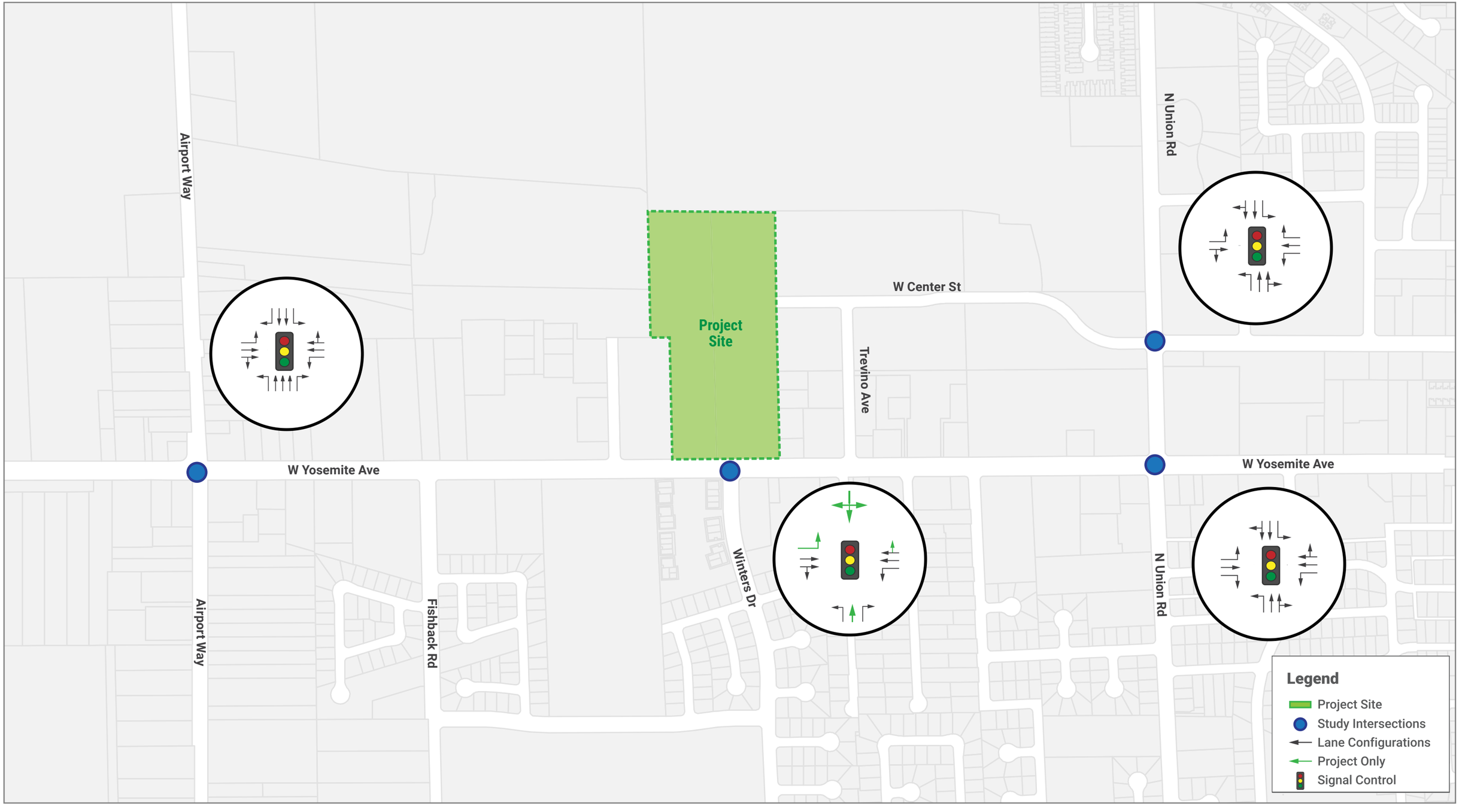
Section 6
Appendix

EXISTING AND CUMULATIVE LANE CONFIGURATIONS



Scale in Feet
0 600 North

Existing Lane Configurations



Scale in Feet
0 600 North

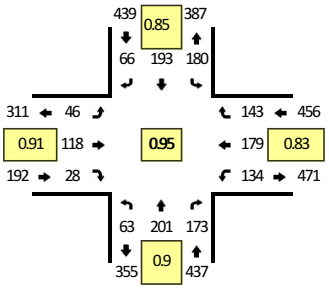
Cumulative Lane Configurations

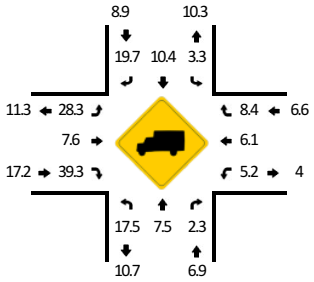
EXISTING TURNING MOVEMENT COUNTS

Type of peak hour being reported: Intersection Peak | Method for determining peak hour: Total Entering Volume

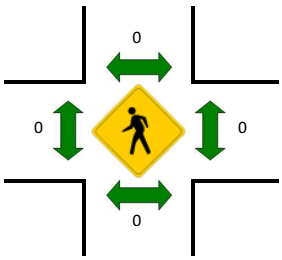
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CITY/STATE: Manteca, CA | **DATE:** Tue, Sep 14 2021

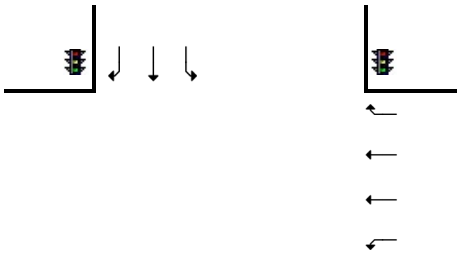
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Peak 15-Min: 8:45 AM -- 9:00 AM

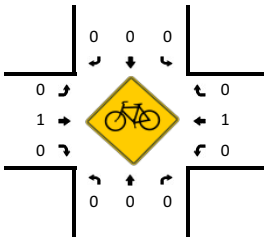


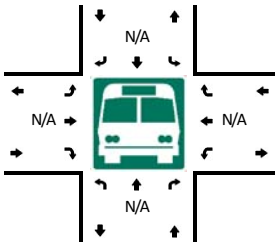


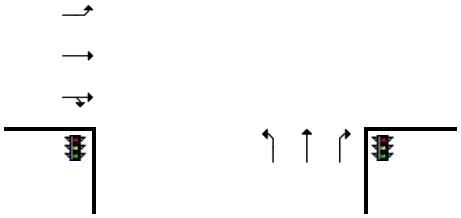
Quality Counts
DATA THAT DRIVES COMMUNITIES

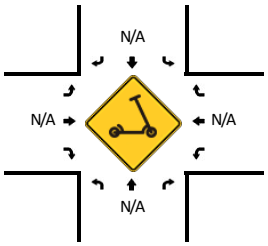












15-Min Count Period Beginning At	Airport Wy (Northbound)				Airport Wy (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	17	45	14	0	25	47	24	0	12	12	4	0	18	34	26	0	278	
7:15 AM	14	53	22	0	23	47	24	0	9	24	7	0	21	30	36	0	310	
7:30 AM	10	61	27	0	21	31	21	0	9	23	8	1	24	54	51	0	341	
7:45 AM	24	52	37	0	33	53	23	0	6	37	5	0	30	55	24	0	379	1308
8:00 AM	26	59	37	0	44	61	24	0	12	24	9	1	29	51	22	0	399	1429
8:15 AM	10	48	41	0	38	31	17	0	6	29	5	1	26	40	31	0	323	1442
8:30 AM	15	39	49	0	59	49	18	0	11	37	4	0	36	40	43	0	400	1501
8:45 AM	12	55	46	0	39	52	7	0	14	28	10	1	43	48	47	0	402	1524

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	48	220	184	0	156	208	28	0	56	112	40	4	172	192	188	0	1608
Heavy Trucks	8	24	4		4	16	4		32	8	16		0	0	8		124
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 9/23/2021 1:19 PM | SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

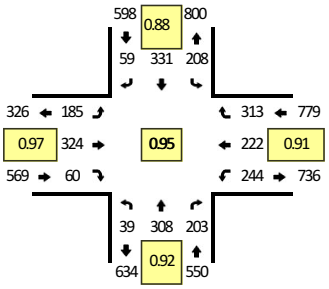
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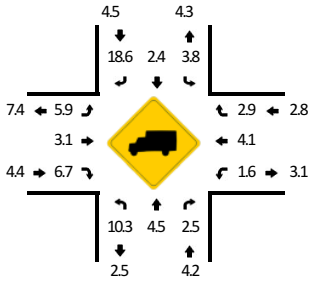
Method for determining peak hour: Total Entering Volume

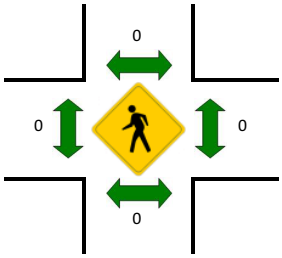
LOCATION: Airport Wy -- W Yosemite Ave
CITY/STATE: Manteca, CA

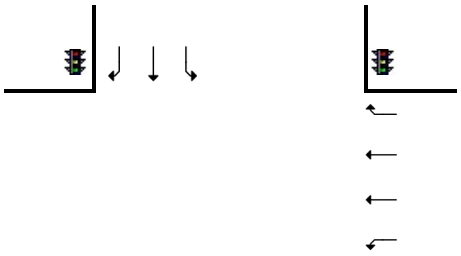
QC JOB #: 15549304
DATE: Tue, Sep 14 2021

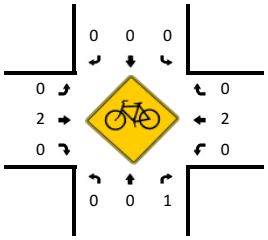
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:00 PM -- 4:15 PM

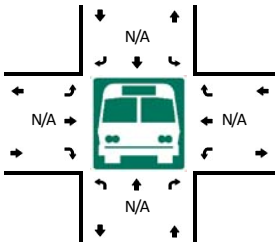


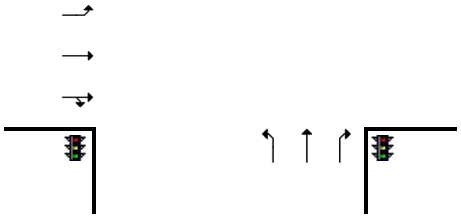


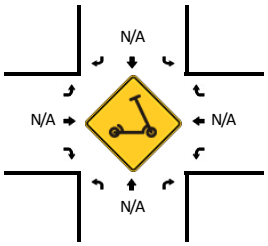












15-Min Count Period Beginning At	Airport Wy (Northbound)				Airport Wy (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	8	81	43	0	73	79	17	0	47	78	15	1	63	56	95	1	657	
4:15 PM	12	76	54	0	59	85	14	0	42	83	15	3	50	53	106	0	652	
4:30 PM	9	70	47	0	37	80	15	0	56	74	15	1	87	63	57	0	611	
4:45 PM	10	81	59	0	39	87	13	0	34	89	15	1	43	50	55	0	576	2496
5:00 PM	15	79	47	0	45	76	12	0	41	71	18	2	71	48	55	0	580	2419
5:15 PM	7	83	39	0	49	86	10	0	31	62	14	0	41	52	59	0	533	2300
5:30 PM	13	81	38	0	33	104	15	0	48	80	27	0	43	48	69	0	599	2288
5:45 PM	12	81	43	0	48	108	9	0	29	60	9	0	60	47	57	0	563	2275

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	32	324	172	0	292	316	68	0	188	312	60	4	252	224	380	4	2628
Heavy Trucks	8	8	8		20	12	4		8	12	0		4	8	4		96
Buses																	
Pedestrians		0				0				0				0			0
Bicycles	0	0	0		0	0	0		0	8	0		0	0	0		8
Scooters																	

Comments:

Report generated on 9/23/2021 1:19 PM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

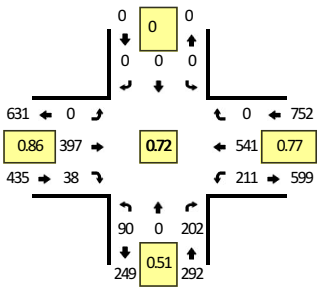
Type of peak hour being reported: Intersection Peak

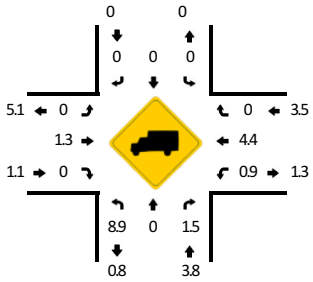
Method for determining peak hour: Total Entering Volume

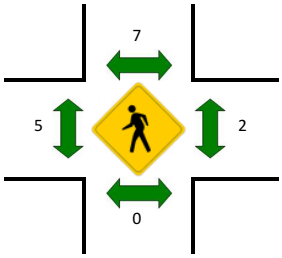
LOCATION: Winters Dr -- W Yosemite Ave
CITY/STATE: Manteca, CA

QC JOB #: 15685501
DATE: Tue, Feb 1 2022

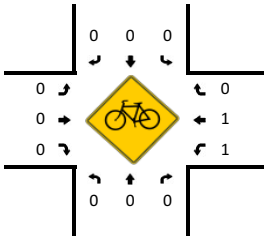
Peak-Hour: 8:00 AM -- 9:00 AM
Peak 15-Min: 8:45 AM -- 9:00 AM

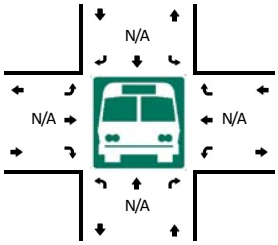


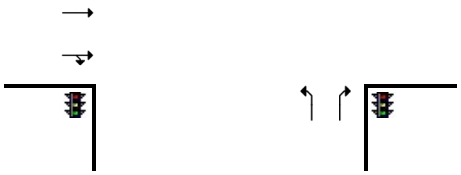


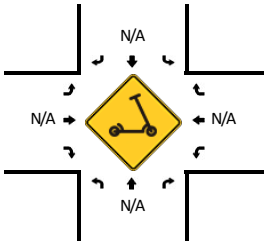












15-Min Count Period Beginning At	Winters Dr (Northbound)				Winters Dr (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	3	0	12	0	0	0	0	0	0	32	3	0	2	92	0	0	144	
7:15 AM	3	0	8	0	0	0	0	0	0	35	3	0	8	107	0	0	164	
7:30 AM	11	0	21	0	0	0	0	0	0	81	8	0	17	131	0	0	269	
7:45 AM	17	0	45	0	0	0	0	0	0	83	11	0	35	175	0	0	366	943
8:00 AM	15	0	35	0	0	0	0	0	0	91	7	0	29	141	0	0	318	1117
8:15 AM	21	0	21	0	0	0	0	0	0	100	3	0	26	123	0	0	294	1247
8:30 AM	17	0	40	0	0	0	0	0	0	98	9	0	55	133	0	0	352	1330
8:45 AM	37	0	106	0	0	0	0	0	0	108	19	0	101	144	0	0	515	1479

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	148	0	424	0	0	0	0	0	0	432	76	0	404	576	0	0	2060
Heavy Trucks	4	0	4		0	0	0		0	8	0		0	36	0		52
Buses																	
Pedestrians		0				4				4				4			12
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 2/10/2022 11:20 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

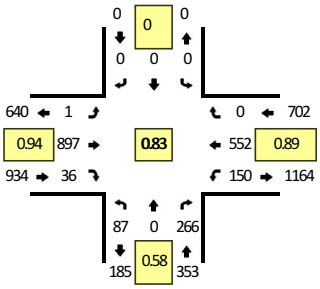
Type of peak hour being reported: Intersection Peak

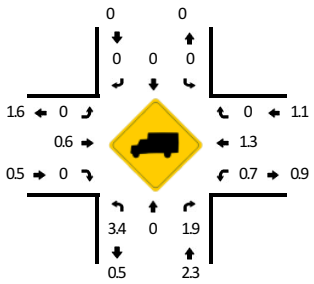
Method for determining peak hour: Total Entering Volume

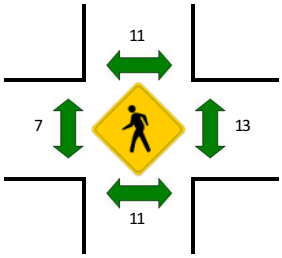
LOCATION: Winters Dr -- W Yosemite Ave
CITY/STATE: Manteca, CA

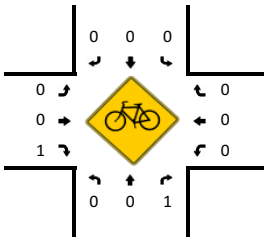
QC JOB #: 15685502
DATE: Tue, Feb 1 2022

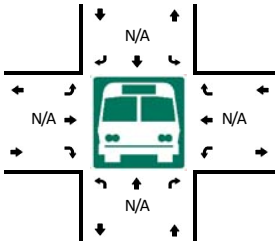
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:00 PM -- 4:15 PM

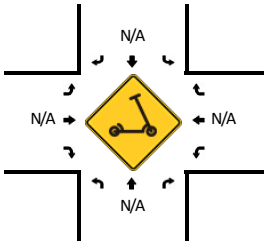












15-Min Count Period Beginning At	Winters Dr (Northbound)				Winters Dr (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	48	0	103	0	0	0	0	0	0	235	13	0	56	141	0	1	597	
4:15 PM	23	0	89	0	0	0	0	0	0	204	5	1	38	148	0	0	508	
4:30 PM	13	0	34	0	0	0	0	0	0	224	8	0	28	140	0	0	447	
4:45 PM	3	0	40	0	0	0	0	0	0	234	10	0	27	123	0	0	437	1989
5:00 PM	11	0	35	0	0	0	0	0	0	211	12	0	27	169	0	1	466	1858
5:15 PM	6	0	31	0	0	0	0	0	0	187	10	0	25	144	0	0	403	1753
5:30 PM	5	0	29	0	0	0	0	0	0	236	11	0	34	141	0	1	457	1763
5:45 PM	3	0	41	0	0	0	0	0	0	179	6	0	38	140	0	0	407	1733

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	192	0	412	0	0	0	0	0	0	940	52	0	224	564	0	4	2388
Heavy Trucks	0	0	8		0	0	0		0	16	0		4	4	0		32
Buses																	
Pedestrians		16				28				20				24			88
Bicycles	0	0	0		0	0	0		0	0	4		0	0	0		4
Scooters																	

Comments:

Report generated on 2/10/2022 11:20 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

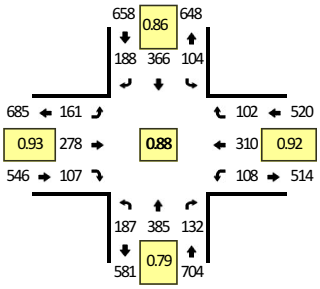
Type of peak hour being reported: Intersection Peak

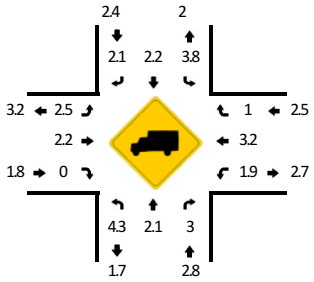
Method for determining peak hour: Total Entering Volume

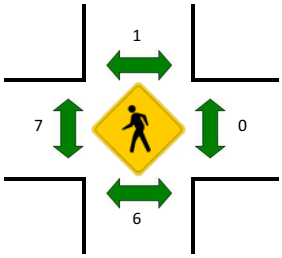
LOCATION: N Union Rd -- W Yosemite Ave
CITY/STATE: Manteca, CA

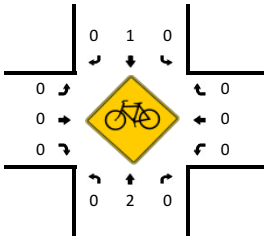
QC JOB #: 15685503
DATE: Tue, Feb 1 2022

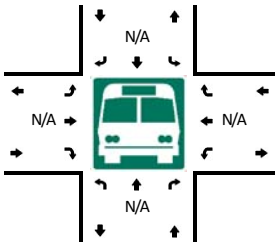
Peak-Hour: 7:45 AM -- 8:45 AM
Peak 15-Min: 7:45 AM -- 8:00 AM

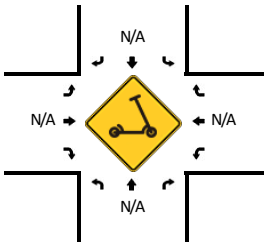


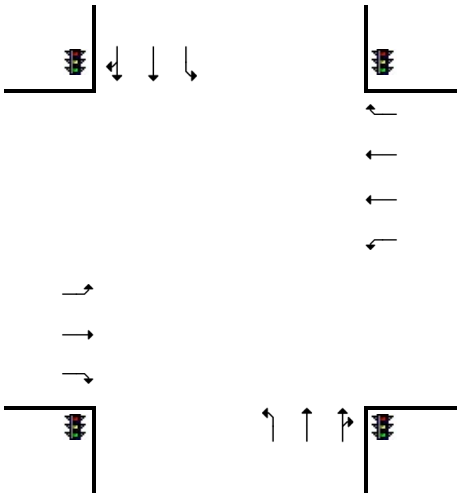












15-Min Count Period Beginning At	N Union Rd (Northbound)				N Union Rd (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	23	56	14	0	17	60	17	0	10	24	12	0	18	42	11	0	304	
7:15 AM	35	89	21	0	12	93	33	0	16	22	20	1	21	49	12	0	424	
7:30 AM	32	124	14	0	20	120	36	0	33	38	30	0	32	59	26	0	564	
7:45 AM	65	125	32	0	38	103	51	0	46	72	28	0	23	78	30	0	691	1983
8:00 AM	51	84	45	0	22	101	45	0	39	73	28	0	35	87	20	0	630	2309
8:15 AM	34	97	27	0	24	68	41	0	30	68	23	0	25	65	30	0	532	2417
8:30 AM	37	79	28	0	20	94	51	0	46	65	28	0	25	80	22	0	575	2428
8:45 AM	42	99	23	0	23	63	59	0	59	89	38	0	29	86	24	0	634	2371

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	260	500	128	0	152	412	204	0	184	288	112	0	92	312	120	0	2764
Heavy Trucks	8	12	4		4	8	4		4	12	0		0	12	0		68
Buses																	
Pedestrians		4				0				4				0			8
Bicycles	0	0	0		0	4	0		0	0	0		0	0	0		4
Scooters																	

Comments:

Report generated on 2/10/2022 11:20 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

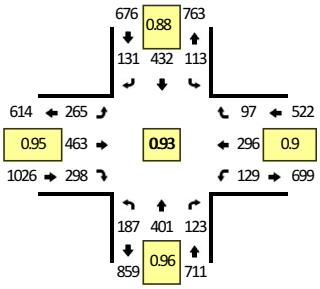
Type of peak hour being reported: Intersection Peak

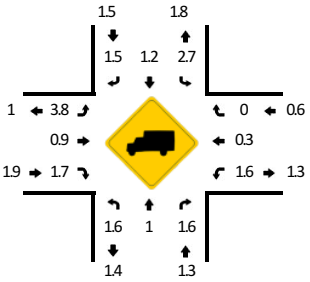
Method for determining peak hour: Total Entering Volume

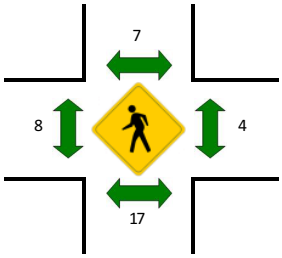
LOCATION: N Union Rd -- W Yosemite Ave
CITY/STATE: Manteca, CA

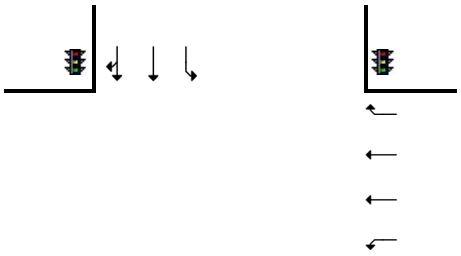
QC JOB #: 15685504
DATE: Tue, Feb 1 2022

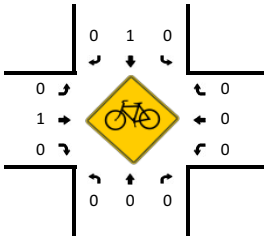
Peak-Hour: 4:00 PM -- 5:00 PM
Peak 15-Min: 4:15 PM -- 4:30 PM

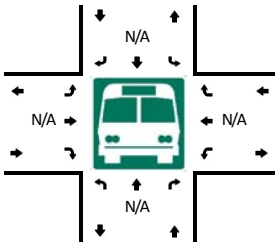


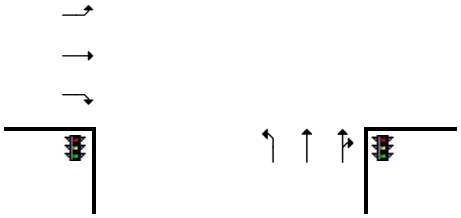


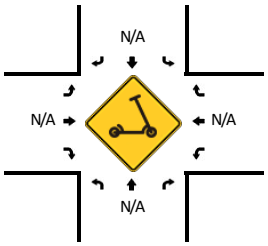












15-Min Count Period Beginning At	N Union Rd (Northbound)				N Union Rd (Southbound)				W Yosemite Ave (Eastbound)				W Yosemite Ave (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	46	110	29	0	32	105	37	0	65	120	79	0	28	71	26	0	748	
4:15 PM	46	97	38	0	35	120	37	0	78	116	75	0	34	83	28	0	787	
4:30 PM	45	98	34	0	22	94	32	0	58	118	65	0	35	71	22	0	694	
4:45 PM	50	96	22	0	24	113	25	0	64	109	79	0	32	71	21	0	706	2935
5:00 PM	43	102	31	0	25	114	32	0	58	98	77	0	35	92	35	0	742	2929
5:15 PM	50	116	26	0	30	114	37	0	53	96	51	0	27	79	25	0	704	2846
5:30 PM	41	130	44	0	25	108	25	0	56	117	66	0	29	85	25	0	751	2903
5:45 PM	51	122	38	0	27	104	38	0	51	99	50	0	27	64	29	0	700	2897

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	184	388	152	0	140	480	148	0	312	464	300	0	136	332	112	0	3148
Heavy Trucks	0	4	4		0	8	0		16	0	0		4	0	0		36
Buses																	
Pedestrians		20				4				12				0			36
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 2/10/2022 11:20 AM

SOURCE: Quality Counts, LLC (http://www.qualitycounts.net) 1-877-580-2212

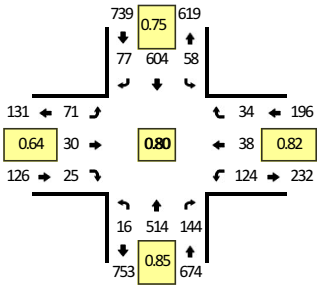
Type of peak hour being reported: Intersection Peak

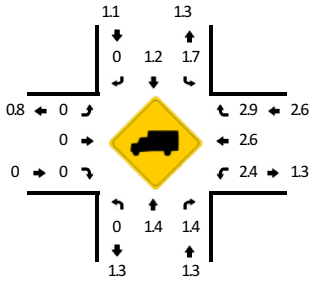
Method for determining peak hour: Total Entering Volume

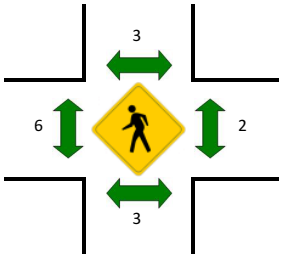
LOCATION: N Union Rd -- W Center St
CITY/STATE: Manteca, CA

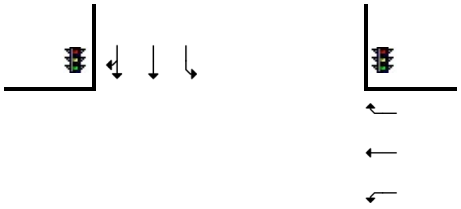
QC JOB #: 15685505
DATE: Tue, Feb 1 2022

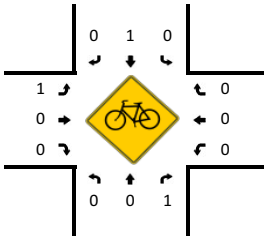
Peak-Hour: 7:30 AM -- 8:30 AM
Peak 15-Min: 7:45 AM -- 8:00 AM

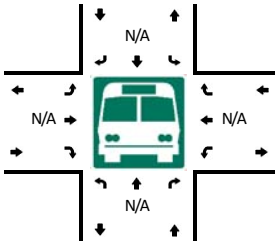


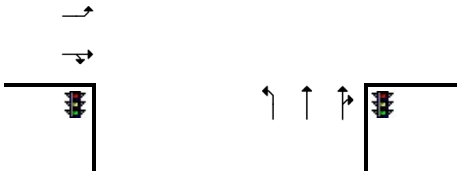


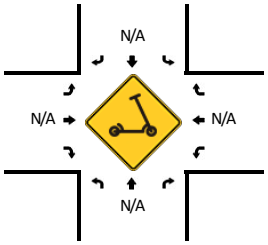












15-Min Count Period Beginning At	N Union Rd (Northbound)				N Union Rd (Southbound)				W Center St (Eastbound)				W Center St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
7:00 AM	2	63	15	0	14	83	1	0	4	7	2	0	22	3	6	0	222	
7:15 AM	6	82	31	0	10	111	7	0	5	4	8	0	36	4	5	0	309	
7:30 AM	7	150	24	0	8	149	10	0	35	5	9	0	30	10	7	0	444	
7:45 AM	3	153	43	0	20	185	41	0	19	10	6	0	37	14	9	0	540	1515
8:00 AM	2	100	38	0	17	152	15	0	8	8	3	0	29	6	10	0	388	1681
8:15 AM	4	111	39	0	13	118	11	0	9	7	7	0	28	8	8	0	363	1735
8:30 AM	3	112	43	0	21	138	15	0	9	8	3	0	38	18	12	0	420	1711
8:45 AM	4	141	41	0	19	140	23	0	20	16	5	0	42	23	11	0	485	1656

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	12	612	172	0	80	740	164	0	76	40	24	0	148	56	36	0	2160
Heavy Trucks	0	8	8		0	12	0		0	0	0		0	0	0		28
Buses																	
Pedestrians		4				0				0				4			8
Bicycles	0	0	0		0	4	0		0	0	0		0	0	0		4
Scooters																	

Comments:

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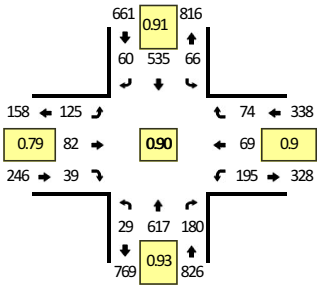
Type of peak hour being reported: Intersection Peak

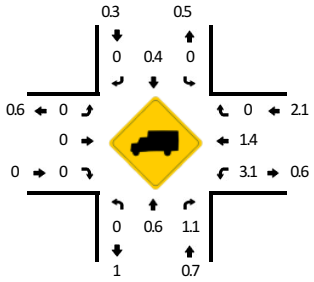
Method for determining peak hour: Total Entering Volume

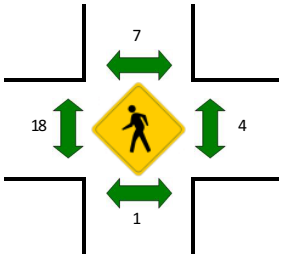
LOCATION: N Union Rd -- W Center St
CITY/STATE: Manteca, CA

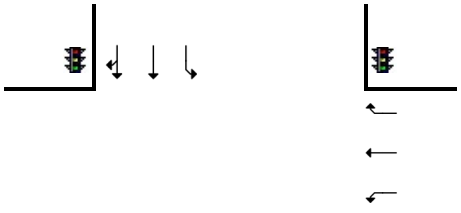
QC JOB #: 15685506
DATE: Tue, Feb 1 2022

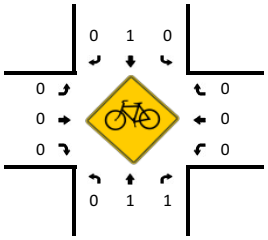
Peak-Hour: 4:15 PM -- 5:15 PM
Peak 15-Min: 4:15 PM -- 4:30 PM

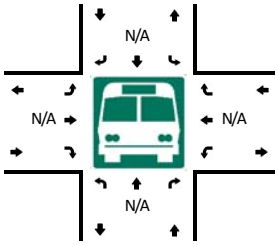


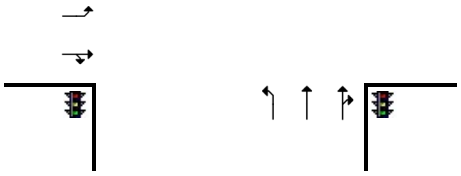


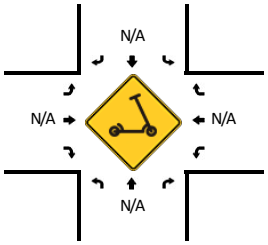












15-Min Count Period Beginning At	N Union Rd (Northbound)				N Union Rd (Southbound)				W Center St (Eastbound)				W Center St (Westbound)				Total	Hourly Totals
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U		
4:00 PM	8	135	50	0	25	150	19	0	24	15	11	0	38	20	18	0	513	
4:15 PM	9	161	53	0	21	142	19	0	47	23	8	0	49	21	24	0	577	
4:30 PM	10	144	45	0	16	136	18	0	24	21	12	0	32	18	24	0	500	
4:45 PM	4	134	43	0	13	115	11	0	28	16	12	0	56	12	13	0	457	2047
5:00 PM	6	178	39	0	16	142	12	0	26	22	7	0	58	18	13	0	537	2071
5:15 PM	13	140	41	0	10	132	13	0	29	15	8	0	57	16	13	0	487	1981
5:30 PM	4	158	67	0	9	117	12	0	29	22	13	0	49	15	10	0	505	1986
5:45 PM	5	157	54	0	12	122	10	0	24	16	6	0	50	9	11	0	476	2005

Peak 15-Min Flowrates	Northbound				Southbound				Eastbound				Westbound				Total
	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	Left	Thru	Right	U	
All Vehicles	36	644	212	0	84	568	76	0	188	92	32	0	196	84	96	0	2308
Heavy Trucks	0	8	4		0	0	0		0	0	0		8	0	0		20
Buses																	
Pedestrians		0				8				24				0			32
Bicycles	0	0	0		0	0	0		0	0	0		0	0	0		0
Scooters																	

Comments:

Report generated on 2/10/2022 11:20 AM

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SIGNAL TIMINGS

P.02

707 575 5888

FEB-16-99 12:17 PM TJKM

SIGNAL TIMINGS (C7 PROGRAM)
LOCATION: YOSEMITE/AIRPORT
FUNCTIONS AT "F"

INTERVAL	FUNCTION	1	2	3	4	5	6	7	8	E (PREEMPT)	
0	WALK		8		8		8		8	RR1 DLY	0
1	FDW		~~11~~ 13		~~19~~ 21		~~11~~ 13	21	~~19~~	RR1 T/C	10
2	MIN GRN	6	6	6	6	6	6	6	6	EVA DLY	0
3	TYPE3		20		20		20		20	EVA HLD	1
4	ADDED/VEH		2.3		2.0		2.3		2.0	EVB DLY	0
5	PASSAGE	1.0	7.0	1.0	6.5	10	7.0	1.0	6.5	EVB HLD	1
6	MAX GAP	1.0	8.0	1.0	7.5	10	8.0	1.0	7.5	EVC DLY	0
7	MIN GAP	1.0	5.0	1.0	4.5	10	5.0	1.0	4.5	EVC HLD	1
8	MAX I	30	~~50~~	30	~~50~~	30	50	30	~~50~~	EVD DLY	0
9	MAX II		40		35				35	EVD HLD	1
A	MAX III									RR2 DLY	0
B										RR2 T/C	10
C	REDUCE BY		0.1		0.1		0.1		0.1		
D	REDUCE EVERY		1.0		1.0		1.0		1.0		
E	YEL	3.0	4.4	3.0	4.0	3.0	4.4	3.0	4.0		
F	RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0		

20
20
20
20
20
20

F-0-E	MAX INIT GRN	20
F-0-F	RED REVERT	2.0

2/16/99

P.03

707 575 5888

SIGNAL TIMINGS (C7 PROGRAM)
LOCATION: YOSEMITE/AIRPORT
FUNCTIONS AT "F-F"

INT	FLAGS	1	2	3	4	5	6	7	8
0	PERMIT	X	X	X	X	X	X	X	X
1	RED LOCK								
2	YEL LOCK								
3	VEH RCL								
4	PED RCL								
5	PED PHASE		X		X		X		X
6	OL A								
7	OL B								
8	DBL ENTRY								
9	MAX 2								
A	LAG PHASE		X		X		X		X
B	RED REST								
C	COORD								
D	TYPE 3								
E	STARTUP				X				X
F	KEY		X				X		

PM TJKM

CALTRANS
Model 170 Controller
Traffic Design Branch
C7 Type Coordination

C7 PROGRAM

LOCATION Union/Center E4212 CO RTE PM

CONTROL CODE "F"

PHASE TIMING

		INTERVAL	1	2	3	4	5	6	7	8
	0	WALK	0	7	0	7	0	7	0	7
	1	FLASHING DON'T WALK	0	15	0	15	0	13	0	15
	2	MIN. GREEN	3	4	3	4	3	4	3	4
	3	TYPE 3 DET (CALL)	0	30	0	30	0	30	0	30
	4	ADDED/ACT.	0	0	0	0	0	0	0	0
	5	PASSAGE TIME	20	40	20	30	20	40	20	30
	6	MAXIMUM GAP	20	20	20	20	20	20	20	20
	7	MINIMUM GAP	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
	8	MAXIMUM EXT. 1	25	45	25	30	25	45	25	30
	9	MAXIMUM EXT. 2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
	A	MAXIMUM EXT. 3								
	B									
LONG FAIL	C	REDUCE BY		1		2		1		1
SHORT FAIL	D	REDUCE EVERY	0	0	0	0	0	0	0	0
MAX VAR INIT 2.0	E	YELLOW	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
RED REVT 1.0	F	RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
		DIRECTION								
		DATE								
		BY								

CLOCK 9

CLOCK RESET (MASTER) CHK SUM 130

YEAR

MONTH

DAY OF MONTH

DAY OF WEEK

HOUR

MINUTE

SECOND

C: GAP SET (a), MAX SET, C SERV, OL-A EXTD GRN, OL-B EXTD GRN, OL-C EXTD GRN, OL-D EXTD GRN, RAM ADD

D: TIME BASE SELECT (a), TIME BASE HOUR, TIME BASE MUL, PED. SELECT, 7-WIRE SELECT, OFFSET SEEKING

E: PRE-EMPTION

EV SEL	0	
RR 1 TRK CLR	10	
EV A 2+5/4+8 DELAY	1	
EV A 2+5/4+8 CLR	5	
EV B 4+7 DELAY	1	
EV B 4+7 CLR	5	
EV C 1+6/2+6 DELAY	1	
EV C 1+6/2+6 CLR	5	
EV D 3+8 DELAY	1	
EV D 3+8 CLR	5	
EV MAX HOLD	60	
RR 2 TRK CLR	10	
EV CLR TMR	(a)	
EV DLY TMR		
RR CLR TMR		
EV MAX TIMER		

F: FLAGS

	FLAGS	1	2	3	4	5	6	7	8	
0	X PHASES PERMITTED	X	X	X	X	X	X	X	X	255
1	DETECTOR RED LOCK									
2	DET. RED & YEL LOCK									
3	VEHICLE RECALL									
4	PEDESTRIAN RECALL									
5	PEDESTRIAN PHASES	X	X	X	X					170
6	A ARROW									
7	B ARROW									
8	DOUBLE ENTRY	X	X	X	X					170
9	MAX 2 PHASES									
A	LAG PHASES	FOR OBSERVATION ONLY								
B	RED REST	X		X	X		X			89
C	REST-IN WALK									
D	MAX 3 PHASES									
E	PHASE-YEL START-UP			X				X		136
F	FIRST PHASE SERVE	X		X		X				34

NOTES: (a) leave as is Chk Sum = 130

Running/Free

CONTROL CODE "E"

	E FUNCTION	E PHASE FLAG 1 2 3 4 5 6 7 8	F FUNCTION	F PHASE FLAG 1 2 3 4 5 6 7 8		
0			COND. CODE 4		0	
1			COND. CODE 5		1	
2					2	
3					3	
4					4	
5			PHASE 2 PED DW	X	5	2
6			PHASE 6 PED DW	X	6	32
7			PHASE 4 PED DW	X	7	8
8			PHASE 8 PED DW	X	8	128
9					9	
A	OVERLAP "A" NOT		OVERLAP "A" ON		A	
B	OVERLAP "B" NOT		OVERLAP "B" ON		B	
C	OVERLAP "C" NOT		OVERLAP "C" ON		C	
D	OVERLAP "D" NOT		OVERLAP "D" ON		D	
E					E	
F					F	

07

CONTROL PLANS (MAXIMUM OF 8 PLANS)

	0		1	2	3
0	LOC ADDR	CYCLE LENGTH	95	95	100
1	MANUAL CP	FZ 1 GREEN FACTOR	14	14	18
2	MASTER CP				
3	CURRENT CP	FZ 3 GREEN FACTOR	12	16	20
4	LAST CP	FZ 4 GREEN FACTOR	10	10	13
5	TYPE FLASH	FZ 5 GREEN FACTOR	14	14	18
6	CURRENT OFFSET				
7	TRANS. CP	FZ 7 GREEN FACTOR	12	16	20
8	FLASH START	FZ 8 GREEN FACTOR	10	10	13
9	CP INDEX	MULTIPLE CYCLE PATTERN			
A		OFFSET A	56	36	33
B		OFFSET B	56	36	33
C		OFFSET C	56	36	33
D	MANUAL OFFSET	FAZE 3 EXTENSION			
E		FAZE 7 EXTENSION			
F		OFFSET INTERRUPT TIME			
	DIRECTION OF PROGRESSION				
	DATE				
	BY				

TIMES AND TIMERS		Y-COORD "C"	Y-COORD "D"	LAG PHASE GAPOUT B TIMER	FLAGS								
A	B	C	D	E	F	1	2	3	4	5	6	7	8
LOCAL TIMER	MASTER TIMER	RAM TEST		TIME BASE TIMER O	LAG FZ FREE		X		X		X		X
FORCE OFF FZ 1	PERMISSIVE 1	INITIAL FLASH		GAPOUT CP 1	LAG FZ CP 1		X		X		X		X
FORCE OFF FZ 2				GAPOUT CP 2	LAG FZ CP 2		X		X		X		X
FORCE OFF FZ 3	PERMISSIVE 3			GAPOUT CP 3	LAG FZ CP 3		X		X		X		X
FORCE OFF FZ 4	PERMISSIVE 4	PERM TIME	PERM TIME	GAPOUT CP 4	LAG FZ CP 4		X		X		X		X
FORCE OFF FZ 5	PERMISSIVE 5	LAG OFFSET	LAG OFFSET	GAPOUT CP 5	LAG FZ CP 5								
FORCE OFF FZ 6		FORCE OFF	FORCE OFF	GAPOUT CP 6	LAG FZ CP 6								
FORCE OFF FZ 7	PERMISSIVE 7	LONG GREEN	LONG GREEN	GAPOUT CP 7	LAG FZ CP 7								
FORCE OFF FZ 8	PERMISSIVE 8	NO GREEN TIMER O	NO GREEN TIMER O	GAPOUT CP 8	LAG FZ CP 8								
		PERM TIMER O	PERM TIMER O	GAPOUT CP 9	LAG FZ CP 9								
PRESENT OFFSET	DESIRED OFFSET	Y COORD RESET O	COORD RESET O	O	LAG FZ Y-COORD C								
		OFFSET TIMER O	OFFSET TIMER O	O	LAG FZ Y-COORD D								
		LAG GREEN TIMER O	LAG GREEN TIMER O	O	COORD FAZES		X				X		
		FORCE OFF TIMER O	FORCE OFF TIMER O	O	● HOLD								
		LONG GREEN O	LONG GREEN O	O	● FAZE NEXT								
LOCAL CYCLE	CYCLE	NO GREEN TIMER O	NO GREEN TIMER O	TIME BASE CYCLE O	● FORCE OFF								

● DO NOT SET THESE FLAGS
O FOR OBSERVATION ONLY

OFF ON

LOCATION FEATURE

CONTROL CODE "D"

D	FLAGS 1 2 3 4 5 6 7 8	E	FLAGS 1 2 3 4 5 6 7 8	F	FLAGS 1 2 3 4 5 6 7 8
MAXIMUM RECALL CP 0		MINIMUM RECALL CP 1		PED RECALL CP 1	
MAXIMUM RECALL CP 2		MINIMUM RECALL CP 3		PED RECALL CP 2	
MAXIMUM RECALL CP 3		MINIMUM RECALL CP 4		PED RECALL CP 3	
MAXIMUM RECALL CP 4		MINIMUM RECALL CP 5		PED RECALL CP 4	
MAXIMUM RECALL CP 5		MINIMUM RECALL CP 6		PED RECALL CP 5	
MAXIMUM RECALL CP 6		MINIMUM RECALL CP 7		PED RECALL CP 6	
MAXIMUM RECALL CP 7		MINIMUM RECALL CP 8		PED RECALL CP 7	
MAXIMUM RECALL CP 8		MINIMUM RECALL CP 9		PED RECALL CP 8	
MAXIMUM RECALL CP 9		MINIMUM RECALL CP A		PED RECALL CP 9	
MAXIMUM RECALL CP A		MINIMUM RECALL CP B		PED RECALL CP A	
MAXIMUM RECALL CP B		MINIMUM RECALL CP C		PED RECALL CP B	
MAXIMUM RECALL CP C				PED RECALL CP C	

CALTRANS
Model 170 Controller
Traffic Design Branch
C7 Type Coordination

C7 PROGRAM Union - Yosemite

LOCATION _____ CO ____ RTE ____ PM ____

CONTROL CODE "F"

PHASE TIMING

O	INTERVAL	1	2	3	4	5	6	7	8
0	WALK	0	10	0	10	0	10	0	10
1	FLASHING DON'T WALK	0	14 1A	0	14 1A	0	14 1A	0	14 1A
2	MIN. GREEN	4	10	4	5	4	10	4	5
3	TYPE 3 DET (CALL)	0	20	0	20	0	20	0	20
4	ADDED/ACT.	0	4.0	0	0	0	3.0	0	0
5	PASSAGE TIME	3.0	4.0	3.0	3.0	3.0	4.0	3.0	3.0
6	MAXIMUM GAP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	MINIMUM GAP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8	MAXIMUM EXT. 1	3.0	3.5	3.0	3.5	3.0	3.5	3.0	3.5
9	MAXIMUM EXT. 2	(a)	(a)	(a)	(a)	(a)	(a)	(a)	(a)
A	MAXIMUM EXT. 3								
B									
C	REDUCE BY		0.1				0.1		
D	REDUCE EVERY		1.0				1.0		
E	YELLOW	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
F	RED	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

LONG FAIL
SHORT FAIL
MAX I VAR INIT
RED REVT

DIRECTION
DATE
BY

9 CLOCK: CLOCK RESET, MASTER CYC CLKS, YEAR, MONTH, DAY OF MONTH, DAY OF WEEK, HOUR, MINUTE, SECOND

C: GAP SET (a), MAX SET, C SERV, OL-A EXTD GRN, OL-B EXTD GRN, OL-C EXTD GRN, OL-D EXTD GRN, RAM ADD

D: TIME BASE SELECT (a), TIME BASE HOUR, TIME BASE MIN, PED. SELECT, 7-WIRE SELECT, OFFSET SEEKING

E: PRE-EMPTION

EV "A" SELECT	0	
ART TRK CLR	10	DETECTOR RED LOCK
EV "A" 2-3-4-8 DELAY	0	DET. RED & YEL. LOCK
EV "A" 2-3-4-8 CLR	10	VEHICLE RECALL
EV "B" 4-7 DELAY	0	PEDESTRIAN RECALL
EV "B" 4-7 CLR	10	PEDESTRIAN PHASES
EV "C" 1-6-7-8 DELAY	0	A ARROW
EV "C" 1-6-7-8 CLR	10	B ARROW
EV "D" 3-8 DELAY	0	DOUBLE ENTRY
EV "D" 3-8 CLR	10	MAX 2 PHASES
EV MAX HOLD	60	LAG PHASES
RR 2 TRK CLR	10	RED REST
EV CLR TMR		REST-IN WALK
EV DLY TMR		MAX 3 PHASES
RR CLR TMR		PHASE-YEL START-UP
EV MAX TIMER		FIRST PHASE SERVE

F: FLAGS

	1	2	3	4	5	6	7	8	
X PHASES PERMITTED	X	X	X	X	X	X	X	X	0
									1
									2
	X				X				3
									4
	X	X	X	X	X	X	X	X	5
									6
									7
	X		X	X	X			X	8
									9
FOR OBSERVATION ONLY!									A
									B
									C
									D
		X						X	E
	X			X					F

CONTROL CODE "E"

	E FUNCTION	E PHASE FLAG 1 2 3 4 5 6 7 8	F FUNCTION	F PHASE FLAG 1 2 3 4 5 6 7 8	
0			COND. CODE 4		0
1			COND. CODE 3		1
2					2
3					3
4					4
5			PHASE 2 PED OMIT	X	5
6			PHASE 6 PED OMIT	X	6
7			PHASE 4 PED OMIT	X	7
8			PHASE 8 PED OMIT	X	8
9					9
A	OVERLAP "A" NOT USED		OVERLAP "A" ON		A
B	OVERLAP "B" NOT USED		OVERLAP "B" ON		B
C	OVERLAP "C" NOT USED		OVERLAP "C" ON		C
D	OVERLAP "D" NOT USED		OVERLAP "D" ON		D
E					E
F					F

NOTES: (a) Leave as is Cordination (OFF)

2.0 sec carry D-3-0

CT-C8

CALTRANS
Model 170 Controller
Traffic Design Branch
C7 Type Coordination

C7 PROGRAM _____

LOCATION Yosemite + Winters E4225 CO 29 RTE 902 PM 0.0

CONTROL CODE "F"

PHASE TIMING

0		INTERVAL	1	2	3	4	5	6	7	8
	0	WALK	0	0	0	a	0	7	a	7
	1	FLASHING DON'T WALK	0	0	0		0	16		19
	2	MIN. GREEN	4	6	6		4	6		6
	3	TYPE 3 DET (CALL)	0	15	12		0	15		12
	4	ADDED/ACT.	0	2.3	3.0		0	2.3		3.0
	5	PASSAGE TIME	1.0	2.5	3.5		1.0	2.5		3.5
	6	MAXIMUM GAP	1.0	3.5	3.5		1.0	3.5		3.5
	7	MINIMUM GAP	1.0	1.0	3.5		1.0	1.0		3.5
	8	MAXIMUM EXT. 1	24	36	30		24	36		30
	9	MAXIMUM EXT. 2	50	50	50		50	50		50
	A	MAXIMUM EXT. 3	50	50	50		50	50		50
	B									
LONG FAIL	C	RECALL BY	0	0.1	0.1		0	0.1		0.1
SHORT FAIL	D	RECALL EVERY	1.0	1.0	1.0		1.0	1.0		1.0
MAX WARN PHIT 15	E	YELLOW	3.0	4.0	3.0		3.0	4.0		3.0
RED REVT 20	F	RED	1.0	1.0	1.0		1.0	1.0		1.0
		DIRECTION								
		DATE								
		BY								

CLOCK 9

CLOCK RESET (MASTER) SYNCHRON

YEAR

MONTH

DAY OF MONTH

DAY OF WEEK

HOUR

MINUTE

SECOND

C.

GAP SET

MAX SET

C SERV

OL-A EXTD GRN

OL-B EXTD GRN

OL-C EXTD GRN

OL-D EXTD GRN

RAM ADD

D

TIME BASE SELECT

TIME BASE HOUR

TIME BASE MIN

PED. SELECT

7-WIRE SELECT

OFFSET SEQUENCE

PRE-EMPTION E.

EV SEL 2

RR 1 TRK CLR

EV 2+1 DELAY

EV 2+4+8 CLR

EV 4+1 DELAY

EV 8+4+1 CLR

EV 2+1 DELAY

EV 8+4+2 CLR

EV 8+2 DELAY

EV 8+8 CLR

EV MAX HOLD

RR 2 TRK CLR

EV CLR TMR

EV DET TMR

RR 2 TMR

EV MAX TIMER

F

FLAGS 1 2 3 4 5 6 7 8

- ΔPHASES PERMITTED
- DETECTOR REQ LOCK
- DET REQ & YEL LOCK
- VEHICLE RECALL
- PEDESTRIAN RECALL
- PEDESTRIAN PHASES
- A ARROW
- B ARROW
- DOUBLE ENTRY
- MAX 2 PHASES
- LAG PHASES
- REQ REST
- REST-IN WALK
- MAX 3 PHASES
- PHASE-YEL START-UP
- FIRST PHASE SERVE

PCA OBSERVATION ONLY

CONTROL CODE "E"

	E FUNCTION	E PHASE FLAG 1 2 3 4 5 6 7 8	F FUNCTION	F PHASE FLAG 1 2 3 4 5 6 7 8	
0			COND. CODE 4		0
1			COND. CODE 5		1
2					2
3					3
4					4
5			PHASE 2 PED DN		5
6			PHASE 6 PED DN		6
7			PHASE 4 PED DN		7
8			PHASE 8 PED DN		8
9					9
A	OVERLAP "A" NOT		OVERLAP "A" ON		A
B	OVERLAP "B" NOT		OVERLAP "B" ON		B
C	OVERLAP "C" NOT		OVERLAP "C" ON		C
D	OVERLAP "D" NOT		OVERLAP "D" ON		D
E					E
F					F

NOTES:

EVA = 2, 5

EVB = 0

EVC = 1, 4 ~~4~~

EVD = 8

(260 PRO) EF = 5 2

EF 6 6

F9E = 1 EF 7 4

EF 8 8

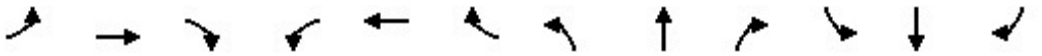
* OBSERVATION ONLY
** DURING COORDINATION, THIS PORTION OF D CARD IS USED AND IS RECORDED ON "C" CARD.
CAROV = CARRY OVER

VEHICLE DETECTOR AND PED DELAY TIMING CARD

3rd KEY ▼ — TO ACCESS PAGE "D" FIRST PRESS KEY D FOLLOWED BY 2nd AND 3rd KEY. "D"

2nd KEY →	SET DELAY 1	SET DELAY 2	SET CAROV 3	SET CAROV 4	OBS COUNT 5	OBS COUNT 6	OBS DELAY 7	OBS DELAY 8	OBS CAROV 9	OBS CAROV A	B	C	D	E	F
0	1I1 EXCT	5J1 EXCT	1I1 EXCT	5J1 EXCT	1I1 *	5J1 *	1I1 *	5J1 *	1I1 *	5J1 *					
1	2I2U EXCT	6J2U EXCT	2I2U EXCT 2.5	6J2U EXCT 2.5	2I2U *	6J2U *	2I2U *	6J2U *	2I2U *	6J2U *					
2	2I2L EXCT	6J2L EXCT	2I2L EXCT 2.5	6J2L EXCT 2.5	2I2L *	6J2L *	2I2L *	6J2L *	2I2L *	6J2L *					
3	2I3U EXCT	6J3U EXCT	2I3U EXCT	6J3U EXCT	2I3U *	6J3U *	2I3U *	6J3U *	2I3U *	6J3U *					
4	2I3L EX	6J3L EX	2I3L EX	6J3L EX	2I3L *	6J3L *	2I3L *	6J3L *	2I3L *	6J3L *					
5	2I4 CLT3	6J4 CLT3	2I4 CLT3	6J4 CLT3	2I4 *	6J4 *	2I4 *	6J4 *	2I4 *	6J4 *					
6	3I5 EXCT	7J5 EXCT	3I5 EXCT	7J5 EXCT	3I5 *	7J5 *	3I5 *	7J5 *	3I5 *	7J5 *					
7	4I6U EXCT	8J6U EXCT	4I6U EXCT	8J6U EXCT	4I6U *	8J6U *	4I6U *	8J6U *	4I6U *	8J6U *					
8	4I6L EXCT	8J6L EXCT	4I6L EXCT	8J6L EXCT	4I6L *	8J6L *	4I6L *	8J6L *	4I6L *	8J6L *					**
9	4I7U EXCT	8J7U EXCT	4I7L EXCT	8J7L EXCT	4I7U *	8J7L *	4I7U *	8J7U *	4I7U *	8J7U *					**
A	4I7L EX	8J7L EX 15.0	4I7L EX	8J7L EX	4I7L *	8J7L *	4I7L *	8J7L *	4I7L *	8J7L *					**
B	4I8 CLT3	8J8 CLT3	4I8 CLT3	8J8 CLT3	4I8 *	8J8 *	4I8 *	8J8 *	4I8 *	8J8 *					**
C	1I9U EXCT	5J9U EXCT	1I9U EXCT	5J9U EXCT	1I9U *	5J9U *	1I9U *	5J9U *	1I9U *	5J9U *					**
D	3I9L EXCT	7J9L EXCT	3I9L EXCT	7J9L EXCT	3I9L *	7J9L *	3I9L *	7J9L *	3I9L *	7J9L *					**
E	Ø2 PED	Ø6 PED													**
F	Ø4 PED	Ø8 PED													

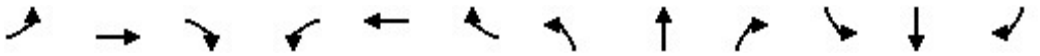
EXISTING CONDITIONS



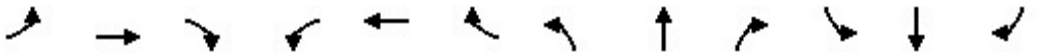
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	46	118	28	134	179	143	63	201	173	180	193	66
Future Volume (veh/h)	46	118	28	134	179	143	63	201	173	180	193	66
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1648	1648	1648	1796	1796	1796	1796	1796	1796	1767	1767	1767
Adj Flow Rate, veh/h	48	124	29	141	188	151	66	212	182	189	203	69
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	17	17	17	7	7	7	7	7	7	9	9	9
Cap, veh/h	91	433	98	178	399	301	123	396	336	234	509	431
Arrive On Green	0.06	0.17	0.17	0.10	0.22	0.22	0.07	0.22	0.22	0.14	0.29	0.29
Sat Flow, veh/h	1570	2524	572	1711	1836	1382	1711	1796	1522	1682	1767	1497
Grp Volume(v), veh/h	48	75	78	141	174	165	66	212	182	189	203	69
Grp Sat Flow(s),veh/h/ln	1570	1566	1530	1711	1706	1511	1711	1796	1522	1682	1767	1497
Q Serve(g_s), s	1.5	2.1	2.2	4.1	4.5	4.8	1.9	5.3	5.3	5.5	4.7	1.7
Cycle Q Clear(g_c), s	1.5	2.1	2.2	4.1	4.5	4.8	1.9	5.3	5.3	5.5	4.7	1.7
Prop In Lane	1.00		0.37	1.00		0.91	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	91	268	262	178	371	329	123	396	336	234	509	431
V/C Ratio(X)	0.53	0.28	0.30	0.79	0.47	0.50	0.54	0.54	0.54	0.81	0.40	0.16
Avail Cap(c_a), veh/h	933	1241	1212	1017	1690	1497	1017	1245	1055	1000	1225	1038
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.1	18.2	18.3	22.1	17.2	17.4	22.6	17.4	17.4	21.1	14.5	13.4
Incr Delay (d2), s/veh	1.7	1.2	1.3	3.0	2.0	2.5	1.4	2.4	2.9	2.5	1.1	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.7	0.8	1.5	1.6	1.6	0.7	2.1	1.8	2.0	1.7	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.8	19.4	19.6	25.0	19.2	19.9	24.0	19.8	20.3	23.6	15.5	13.8
LnGrp LOS	C	B	B	C	B	B	C	B	C	C	B	B
Approach Vol, veh/h		201			480			460			461	
Approach Delay, s/veh		20.8			21.1			20.6			18.6	
Approach LOS		C			C			C			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.3	14.1	7.6	19.5	6.9	16.4	11.0	16.1
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	30.0	40.0	30.0	35.0	30.0	50.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	6.1	4.2	3.9	6.7	3.5	6.8	7.5	7.3
Green Ext Time (p_c), s	0.0	1.6	0.0	2.7	0.0	4.1	0.1	3.8

Intersection Summary	
HCM 6th Ctrl Delay	20.2
HCM 6th LOS	C



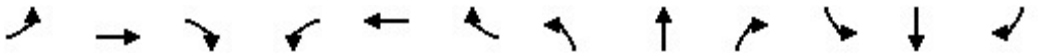
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	397	38	211	541	0	90	0	202	0	0	0
Future Volume (veh/h)	0	397	38	211	541	0	90	0	202	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1841	0	1767	0	1885			
Adj Flow Rate, veh/h	0	551	53	293	751	0	125	0	281			
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.92	0.72	0.92	0.72			
Percent Heavy Veh, %	2	1	0	1	4	0	9	0	1			
Cap, veh/h	4	850	82	357	1919	0	410	0	390			
Arrive On Green	0.00	0.26	0.26	0.20	0.55	0.00	0.24	0.00	0.24			
Sat Flow, veh/h	1781	3302	317	1795	3589	0	1682	0	1598			
Grp Volume(v), veh/h	0	298	306	293	751	0	125	0	281			
Grp Sat Flow(s),veh/h/ln	1781	1791	1828	1795	1749	0	1682	0	1598			
Q Serve(g_s), s	0.0	6.4	6.5	6.8	5.4	0.0	2.6	0.0	7.0			
Cycle Q Clear(g_c), s	0.0	6.4	6.5	6.8	5.4	0.0	2.6	0.0	7.0			
Prop In Lane	1.00		0.17	1.00		0.00	1.00		1.00			
Lane Grp Cap(c), veh/h	4	461	471	357	1919	0	410	0	390			
V/C Ratio(X)	0.00	0.65	0.65	0.82	0.39	0.00	0.30	0.00	0.72			
Avail Cap(c_a), veh/h	986	1487	1518	994	2905	0	1164	0	1106			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	14.3	14.4	16.6	5.6	0.0	13.4	0.0	15.0			
Incr Delay (d2), s/veh	0.0	1.1	1.1	1.8	0.1	0.0	0.5	0.0	3.0			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	2.1	2.1	2.5	1.1	0.0	0.9	0.0	2.4			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	15.5	15.5	18.4	5.7	0.0	13.9	0.0	18.1			
LnGrp LOS	A	B	B	B	A	A	B	A	B			
Approach Vol, veh/h		604			1044			406				
Approach Delay, s/veh		15.5			9.3			16.8				
Approach LOS		B			A			B				
Timer - Assigned Phs	1	2			5	6		8				
Phs Duration (G+Y+Rc), s	12.6	16.2			0.0	28.8		14.6				
Change Period (Y+Rc), s	4.0	5.0			4.0	5.0		4.0				
Max Green Setting (Gmax), s	24.0	36.0			24.0	36.0		30.0				
Max Q Clear Time (g_c+I1), s	8.8	8.5			0.0	7.4		9.0				
Green Ext Time (p_c), s	0.1	2.7			0.0	4.5		1.7				
Intersection Summary												
HCM 6th Ctrl Delay			12.6									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	161	278	107	108	310	102	187	385	132	104	366	188
Future Volume (veh/h)	161	278	107	108	310	102	187	385	132	104	366	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1900	1870	1856	1885	1841	1870	1856	1841	1870	1870
Adj Flow Rate, veh/h	183	316	122	123	352	116	212	438	150	118	416	214
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	0	2	3	1	4	2	3	4	2	2
Cap, veh/h	230	443	378	161	517	168	260	842	286	154	599	304
Arrive On Green	0.13	0.24	0.24	0.09	0.20	0.20	0.15	0.33	0.33	0.09	0.26	0.26
Sat Flow, veh/h	1781	1870	1598	1781	2615	849	1753	2588	877	1753	2262	1149
Grp Volume(v), veh/h	183	316	122	123	236	232	212	299	289	118	326	304
Grp Sat Flow(s),veh/h/ln	1781	1870	1598	1781	1763	1701	1753	1777	1689	1753	1777	1635
Q Serve(g_s), s	7.7	11.9	4.9	5.2	9.5	9.8	9.0	10.5	10.7	5.1	12.7	12.9
Cycle Q Clear(g_c), s	7.7	11.9	4.9	5.2	9.5	9.8	9.0	10.5	10.7	5.1	12.7	12.9
Prop In Lane	1.00		1.00	1.00		0.50	1.00		0.52	1.00		0.70
Lane Grp Cap(c), veh/h	230	443	378	161	349	337	260	578	550	154	470	433
V/C Ratio(X)	0.80	0.71	0.32	0.76	0.68	0.69	0.81	0.52	0.53	0.77	0.69	0.70
Avail Cap(c_a), veh/h	694	851	727	694	802	774	683	808	768	683	808	744
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.5	27.0	24.3	34.2	28.6	28.7	31.7	21.1	21.1	34.3	25.5	25.6
Incr Delay (d2), s/veh	6.2	2.2	0.5	7.4	2.3	2.5	6.1	1.0	1.1	7.8	2.6	3.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	5.3	1.8	2.5	4.0	4.0	4.1	4.2	4.1	2.4	5.3	5.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.7	29.1	24.8	41.6	30.9	31.2	37.8	22.1	22.2	42.1	28.1	28.5
LnGrp LOS	D	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		621			591			800			748	
Approach Delay, s/veh		31.1			33.2			26.3			30.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	30.0	11.9	23.2	16.4	25.4	14.9	20.2
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	30.0	35.0	30.0	35.0	30.0	35.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	7.1	12.7	7.2	13.9	11.0	14.9	9.7	11.8
Green Ext Time (p_c), s	0.3	5.1	0.3	2.2	0.5	5.1	0.5	2.8

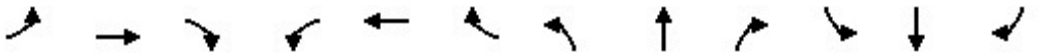
Intersection Summary	
HCM 6th Ctrl Delay	30.0
HCM 6th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	71	30	25	124	38	34	16	514	144	58	604	77
Future Volume (veh/h)	71	30	25	124	38	34	16	514	144	58	604	77
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1870	1856	1856	1900	1885	1885	1870	1885	1900
Adj Flow Rate, veh/h	89	38	31	155	48	42	20	642	180	72	755	96
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Percent Heavy Veh, %	0	0	0	2	3	3	0	1	1	2	1	0
Cap, veh/h	116	94	76	203	273	230	26	1118	313	91	1406	179
Arrive On Green	0.06	0.10	0.10	0.11	0.15	0.15	0.01	0.40	0.40	0.05	0.44	0.44
Sat Flow, veh/h	1810	964	786	1781	1856	1563	1810	2761	773	1781	3185	405
Grp Volume(v), veh/h	89	0	69	155	48	42	20	416	406	72	424	427
Grp Sat Flow(s),veh/h/ln	1810	0	1750	1781	1856	1563	1810	1791	1744	1781	1791	1799
Q Serve(g_s), s	2.3	0.0	1.8	4.1	1.1	1.1	0.5	8.7	8.7	1.9	8.3	8.3
Cycle Q Clear(g_c), s	2.3	0.0	1.8	4.1	1.1	1.1	0.5	8.7	8.7	1.9	8.3	8.3
Prop In Lane	1.00		0.45	1.00		1.00	1.00		0.44	1.00		0.23
Lane Grp Cap(c), veh/h	116	0	170	203	273	230	26	725	706	91	791	794
V/C Ratio(X)	0.77	0.00	0.41	0.77	0.18	0.18	0.76	0.57	0.57	0.79	0.54	0.54
Avail Cap(c_a), veh/h	942	0	1093	927	1159	976	942	1677	1633	927	1677	1685
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.1	0.0	20.4	20.7	17.9	18.0	23.6	11.1	11.1	22.5	9.8	9.8
Incr Delay (d2), s/veh	4.0	0.0	1.6	2.3	0.3	0.4	14.9	1.0	1.1	5.6	0.8	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	0.0	0.7	1.7	0.5	0.4	0.3	2.8	2.8	0.8	2.5	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.1	0.0	21.9	22.9	18.3	18.3	38.4	12.1	12.1	28.1	10.6	10.6
LnGrp LOS	C	A	C	C	B	B	D	B	B	C	B	B
Approach Vol, veh/h		158			245			842			923	
Approach Delay, s/veh		24.3			21.2			12.8			12.0	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	23.5	9.5	8.7	4.7	25.2	7.1	11.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0
Max Q Clear Time (g_c+I1), s	3.9	10.7	6.1	3.8	2.5	10.3	4.3	3.1
Green Ext Time (p_c), s	0.1	8.6	0.2	0.3	0.0	8.6	0.1	0.4

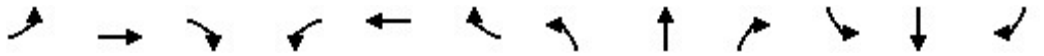
Intersection Summary	
HCM 6th Ctrl Delay	14.2
HCM 6th LOS	B



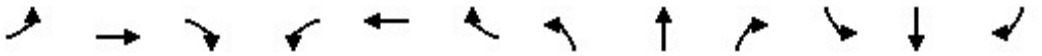
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	185	324	60	244	222	313	39	308	203	208	331	59
Future Volume (veh/h)	185	324	60	244	222	313	39	308	203	208	331	59
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	195	341	63	257	234	329	41	324	214	219	348	62
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	228	753	137	291	512	446	74	433	367	252	618	524
Arrive On Green	0.13	0.26	0.26	0.16	0.29	0.29	0.04	0.24	0.24	0.15	0.34	0.34
Sat Flow, veh/h	1753	2941	537	1767	1763	1537	1753	1841	1560	1739	1826	1547
Grp Volume(v), veh/h	195	201	203	257	234	329	41	324	214	219	348	62
Grp Sat Flow(s),veh/h/ln	1753	1749	1729	1767	1763	1537	1753	1841	1560	1739	1826	1547
Q Serve(g_s), s	10.1	8.9	9.2	13.2	10.1	17.9	2.1	15.1	11.2	11.4	14.4	2.6
Cycle Q Clear(g_c), s	10.1	8.9	9.2	13.2	10.1	17.9	2.1	15.1	11.2	11.4	14.4	2.6
Prop In Lane	1.00		0.31	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	228	448	443	291	512	446	74	433	367	252	618	524
V/C Ratio(X)	0.85	0.45	0.46	0.88	0.46	0.74	0.55	0.75	0.58	0.87	0.56	0.12
Avail Cap(c_a), veh/h	568	756	748	573	953	831	568	696	590	564	691	585
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.4	28.9	29.0	37.8	26.9	29.6	43.5	32.8	31.3	38.7	25.0	21.1
Incr Delay (d2), s/veh	3.5	1.5	1.6	3.5	1.4	5.0	2.4	5.4	3.1	3.5	1.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	3.7	3.8	5.7	4.1	6.8	0.9	7.1	4.4	4.9	6.2	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.9	30.4	30.6	41.3	28.2	34.7	45.8	38.2	34.5	42.2	26.8	21.3
LnGrp LOS	D	C	C	D	C	C	D	D	C	D	C	C
Approach Vol, veh/h		599			820			579			629	
Approach Delay, s/veh		34.5			34.9			37.4			31.6	
Approach LOS		C			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.2	29.1	7.9	36.3	16.1	32.3	17.4	26.8
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	30.0	40.0	30.0	35.0	30.0	50.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	15.2	11.2	4.1	16.4	12.1	19.9	13.4	17.1
Green Ext Time (p_c), s	0.1	4.5	0.0	3.9	0.1	7.0	0.1	4.7

Intersection Summary	
HCM 6th Ctrl Delay	34.6
HCM 6th LOS	C



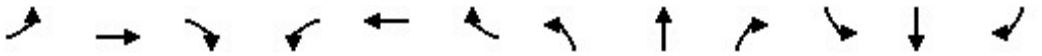
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	897	36	150	552	0	87	0	266	0	0	0
Future Volume (veh/h)	1	897	36	150	552	0	87	0	266	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1885	0	1856	0	1870			
Adj Flow Rate, veh/h	1	1081	43	181	665	0	105	0	320			
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.92	0.83	0.92	0.83			
Percent Heavy Veh, %	2	1	0	1	1	0	3	0	2			
Cap, veh/h	3	1389	55	227	1867	0	446	0	400			
Arrive On Green	0.00	0.40	0.40	0.13	0.52	0.00	0.25	0.00	0.25			
Sat Flow, veh/h	1781	3509	140	1795	3676	0	1767	0	1585			
Grp Volume(v), veh/h	1	552	572	181	665	0	105	0	320			
Grp Sat Flow(s),veh/h/ln	1781	1791	1858	1795	1791	0	1767	0	1585			
Q Serve(g_s), s	0.0	15.5	15.5	5.7	6.3	0.0	2.7	0.0	10.9			
Cycle Q Clear(g_c), s	0.0	15.5	15.5	5.7	6.3	0.0	2.7	0.0	10.9			
Prop In Lane	1.00		0.08	1.00		0.00	1.00		1.00			
Lane Grp Cap(c), veh/h	3	709	735	227	1867	0	446	0	400			
V/C Ratio(X)	0.32	0.78	0.78	0.80	0.36	0.00	0.24	0.00	0.80			
Avail Cap(c_a), veh/h	741	1118	1159	747	2235	0	919	0	824			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	28.8	15.2	15.2	24.5	8.1	0.0	17.1	0.0	20.2			
Incr Delay (d2), s/veh	20.9	1.4	1.4	2.4	0.1	0.0	0.3	0.0	4.5			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	5.2	5.3	2.4	1.9	0.0	1.0	0.0	4.0			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.7	16.6	16.6	26.9	8.2	0.0	17.5	0.0	24.7			
LnGrp LOS	D	B	B	C	A	A	B	A	C			
Approach Vol, veh/h		1125			846			425				
Approach Delay, s/veh		16.6			12.2			22.9				
Approach LOS		B			B			C				
Timer - Assigned Phs	1	2			5	6		8				
Phs Duration (G+Y+Rc), s	11.3	27.8			4.1	35.1		18.6				
Change Period (Y+Rc), s	4.0	5.0			4.0	5.0		4.0				
Max Green Setting (Gmax), s	24.0	36.0			24.0	36.0		30.0				
Max Q Clear Time (g_c+I1), s	7.7	17.5			2.0	8.3		12.9				
Green Ext Time (p_c), s	0.1	5.3			0.0	3.9		1.7				
Intersection Summary												
HCM 6th Ctrl Delay			16.2									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	265	463	298	129	296	97	187	401	123	113	432	131
Future Volume (veh/h)	265	463	298	129	296	97	187	401	123	113	432	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1885	1870	1870	1900	1900	1870	1885	1870	1856	1885	1870
Adj Flow Rate, veh/h	285	498	320	139	318	104	201	431	132	122	465	141
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	1	2	2	0	0	2	1	2	3	1	2
Cap, veh/h	328	578	472	176	582	187	243	770	233	156	640	192
Arrive On Green	0.19	0.31	0.31	0.10	0.22	0.22	0.14	0.29	0.29	0.09	0.24	0.24
Sat Flow, veh/h	1753	1885	1539	1781	2671	856	1781	2697	818	1767	2697	811
Grp Volume(v), veh/h	285	498	320	139	213	209	201	285	278	122	307	299
Grp Sat Flow(s),veh/h/ln	1753	1885	1539	1781	1805	1722	1781	1791	1724	1767	1791	1717
Q Serve(g_s), s	14.3	22.5	16.5	6.9	9.5	9.8	9.9	12.2	12.5	6.1	14.3	14.5
Cycle Q Clear(g_c), s	14.3	22.5	16.5	6.9	9.5	9.8	9.9	12.2	12.5	6.1	14.3	14.5
Prop In Lane	1.00		1.00	1.00		0.50	1.00		0.47	1.00		0.47
Lane Grp Cap(c), veh/h	328	578	472	176	393	375	243	511	492	156	425	407
V/C Ratio(X)	0.87	0.86	0.68	0.79	0.54	0.56	0.83	0.56	0.57	0.78	0.72	0.73
Avail Cap(c_a), veh/h	581	729	595	590	698	665	590	692	666	585	692	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.7	29.6	27.5	39.9	31.4	31.5	38.1	27.5	27.6	40.4	31.8	31.9
Incr Delay (d2), s/veh	7.0	8.6	2.2	7.6	1.2	1.3	7.0	1.4	1.5	8.2	3.3	3.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.5	11.1	6.1	3.3	4.1	4.1	4.7	5.2	5.1	2.9	6.3	6.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.7	38.2	29.7	47.5	32.5	32.8	45.0	28.9	29.0	48.6	35.1	35.5
LnGrp LOS	D	D	C	D	C	C	D	C	C	D	D	D
Approach Vol, veh/h		1103			561			764			728	
Approach Delay, s/veh		36.9			36.4			33.2			37.5	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	30.8	14.0	32.7	17.4	26.5	22.0	24.7
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	30.0	35.0	30.0	35.0	30.0	35.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	8.1	14.5	8.9	24.5	11.9	16.5	16.3	11.8
Green Ext Time (p_c), s	0.3	4.6	0.3	3.2	0.5	4.7	0.7	2.4

Intersection Summary	
HCM 6th Ctrl Delay	36.0
HCM 6th LOS	D

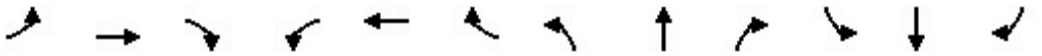


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	125	82	39	195	69	74	29	617	180	66	535	60
Future Volume (veh/h)	125	82	39	195	69	74	29	617	180	66	535	60
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1856	1885	1900	1900	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	139	91	43	217	77	82	32	686	200	73	594	67
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	3	1	0	0	1	1	0	0	0
Cap, veh/h	181	161	76	270	348	294	38	1071	312	95	1384	156
Arrive On Green	0.10	0.13	0.13	0.15	0.18	0.18	0.02	0.39	0.39	0.05	0.43	0.43
Sat Flow, veh/h	1810	1219	576	1767	1885	1592	1810	2717	792	1810	3254	366
Grp Volume(v), veh/h	139	0	134	217	77	82	32	452	434	73	329	332
Grp Sat Flow(s),veh/h/ln	1810	0	1795	1767	1885	1592	1810	1791	1718	1810	1805	1815
Q Serve(g_s), s	4.5	0.0	4.2	7.1	2.1	2.6	1.0	12.2	12.2	2.4	7.6	7.7
Cycle Q Clear(g_c), s	4.5	0.0	4.2	7.1	2.1	2.6	1.0	12.2	12.2	2.4	7.6	7.7
Prop In Lane	1.00		0.32	1.00		1.00	1.00		0.46	1.00		0.20
Lane Grp Cap(c), veh/h	181	0	237	270	348	294	38	706	677	95	768	772
V/C Ratio(X)	0.77	0.00	0.57	0.80	0.22	0.28	0.83	0.64	0.64	0.77	0.43	0.43
Avail Cap(c_a), veh/h	760	0	905	743	951	803	760	1355	1299	760	1365	1373
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.1	0.0	24.2	24.4	20.6	20.9	29.0	14.6	14.6	27.8	12.0	12.0
Incr Delay (d2), s/veh	2.6	0.0	2.1	2.2	0.3	0.5	15.7	1.4	1.4	4.9	0.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	1.8	3.0	0.9	1.0	0.6	4.5	4.3	1.1	2.6	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	0.0	26.3	26.5	20.9	21.4	44.7	16.0	16.0	32.8	12.5	12.6
LnGrp LOS	C	A	C	C	C	C	D	B	B	C	B	B
Approach Vol, veh/h		273			376			918			734	
Approach Delay, s/veh		27.5			24.2			17.0			14.6	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.1	27.5	13.1	11.8	5.3	29.3	10.0	15.0
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0
Max Q Clear Time (g_c+I1), s	4.4	14.2	9.1	6.2	3.0	9.7	6.5	4.6
Green Ext Time (p_c), s	0.1	9.3	0.3	0.7	0.0	6.2	0.2	0.7

Intersection Summary	
HCM 6th Ctrl Delay	18.7
HCM 6th LOS	B

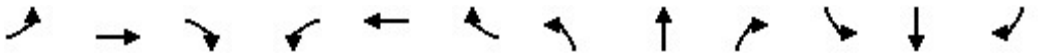
EXISTING PLUS PROJECT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	46	127	28	144	207	180	63	201	176	192	193	66
Future Volume (veh/h)	46	127	28	144	207	180	63	201	176	192	193	66
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1648	1648	1648	1796	1796	1796	1796	1796	1796	1767	1767	1767
Adj Flow Rate, veh/h	48	134	29	152	218	189	66	212	185	202	203	69
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	17	17	17	7	7	7	7	7	7	9	9	9
Cap, veh/h	89	484	102	191	429	352	119	386	327	248	517	438
Arrive On Green	0.06	0.19	0.19	0.11	0.24	0.24	0.07	0.21	0.21	0.15	0.29	0.29
Sat Flow, veh/h	1570	2563	539	1711	1761	1444	1711	1796	1522	1682	1767	1497
Grp Volume(v), veh/h	48	80	83	152	211	196	66	212	185	202	203	69
Grp Sat Flow(s),veh/h/ln	1570	1566	1537	1711	1706	1499	1711	1796	1522	1682	1767	1497
Q Serve(g_s), s	1.6	2.4	2.5	4.7	5.8	6.2	2.0	5.7	5.9	6.3	5.0	1.9
Cycle Q Clear(g_c), s	1.6	2.4	2.5	4.7	5.8	6.2	2.0	5.7	5.9	6.3	5.0	1.9
Prop In Lane	1.00		0.35	1.00		0.96	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	89	295	290	191	416	365	119	386	327	248	517	438
V/C Ratio(X)	0.54	0.27	0.29	0.79	0.51	0.54	0.55	0.55	0.57	0.82	0.39	0.16
Avail Cap(c_a), veh/h	864	1149	1127	941	1565	1374	941	1153	977	926	1134	961
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.0	18.9	19.0	23.6	17.8	17.9	24.6	19.1	19.1	22.5	15.4	14.3
Incr Delay (d2), s/veh	1.9	1.0	1.1	2.8	2.0	2.6	1.5	2.6	3.3	2.5	1.0	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.8	0.9	1.8	2.1	2.0	0.8	2.3	2.1	2.4	1.8	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.9	20.0	20.1	26.4	19.8	20.6	26.0	21.7	22.4	25.0	16.5	14.7
LnGrp LOS	C	B	C	C	B	C	C	C	C	C	B	B
Approach Vol, veh/h		211			559			463			474	
Approach Delay, s/veh		21.6			21.9			22.6			19.9	
Approach LOS		C			C			C			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.1	15.7	7.8	20.9	7.1	18.7	12.0	16.7
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	30.0	40.0	30.0	35.0	30.0	50.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	6.7	4.5	4.0	7.0	3.6	8.2	8.3	7.9
Green Ext Time (p_c), s	0.1	1.7	0.0	2.7	0.0	5.1	0.1	3.8

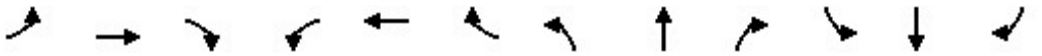
Intersection Summary	
HCM 6th Ctrl Delay	21.5
HCM 6th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	397	38	211	541	5	90	1	202	17	2	75
Future Volume (veh/h)	24	397	38	211	541	5	90	1	202	17	2	75
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1841	1870	1767	1870	1885	1870	1870	1870
Adj Flow Rate, veh/h	33	551	53	293	751	5	125	1	281	18	2	82
Peak Hour Factor	0.72	0.72	0.72	0.72	0.72	0.92	0.72	0.92	0.72	0.92	0.92	0.92
Percent Heavy Veh, %	2	1	0	1	4	2	9	2	1	2	2	2
Cap, veh/h	54	839	81	356	1504	10	519	4	410	125	48	324
Arrive On Green	0.03	0.25	0.25	0.20	0.42	0.42	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	1781	3302	317	1795	3561	24	1392	14	1588	119	187	1254
Grp Volume(v), veh/h	33	298	306	293	369	387	126	0	281	102	0	0
Grp Sat Flow(s),veh/h/ln	1781	1791	1828	1795	1749	1836	1406	0	1588	1560	0	0
Q Serve(g_s), s	0.8	6.7	6.7	7.0	6.9	6.9	0.4	0.0	7.2	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.8	6.7	6.7	7.0	6.9	6.9	2.7	0.0	7.2	2.2	0.0	0.0
Prop In Lane	1.00		0.17	1.00		0.01	0.99		1.00	0.18		0.80
Lane Grp Cap(c), veh/h	54	455	465	356	738	775	523	0	410	497	0	0
V/C Ratio(X)	0.62	0.66	0.66	0.82	0.50	0.50	0.24	0.00	0.68	0.21	0.00	0.00
Avail Cap(c_a), veh/h	952	1435	1465	959	1402	1472	1062	0	1061	723	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	21.5	15.0	15.0	17.3	9.5	9.5	13.3	0.0	15.0	13.2	0.0	0.0
Incr Delay (d2), s/veh	4.2	1.2	1.2	1.9	0.4	0.4	0.3	0.0	2.4	0.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	2.2	2.3	2.6	2.0	2.1	0.9	0.0	2.4	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.7	16.2	16.2	19.1	9.9	9.9	13.6	0.0	17.5	13.4	0.0	0.0
LnGrp LOS	C	B	B	B	A	A	B	A	B	B	A	A
Approach Vol, veh/h		637			1049			407			102	
Approach Delay, s/veh		16.7			12.5			16.3			13.4	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.9	16.4		15.6	5.4	24.0		15.6				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	24.0	36.0		18.5	24.0	36.0		30.0				
Max Q Clear Time (g_c+I1), s	9.0	8.7		4.2	2.8	8.9		9.2				
Green Ext Time (p_c), s	0.1	2.7		0.4	0.0	3.9		2.0				

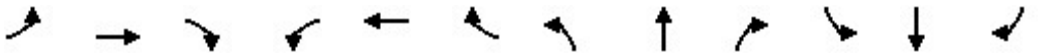
Intersection Summary												
HCM 6th Ctrl Delay			14.4									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	161	286	116	108	312	104	190	386	132	110	371	188
Future Volume (veh/h)	161	286	116	108	312	104	190	386	132	110	371	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1900	1870	1856	1885	1841	1870	1856	1841	1870	1870
Adj Flow Rate, veh/h	183	325	132	123	355	118	216	439	150	125	422	214
Peak Hour Factor	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88
Percent Heavy Veh, %	2	2	0	2	3	1	4	2	3	4	2	2
Cap, veh/h	229	444	379	161	518	170	264	838	283	162	603	302
Arrive On Green	0.13	0.24	0.24	0.09	0.20	0.20	0.15	0.32	0.32	0.09	0.27	0.27
Sat Flow, veh/h	1781	1870	1598	1781	2609	854	1753	2590	876	1753	2274	1140
Grp Volume(v), veh/h	183	325	132	123	238	235	216	300	289	125	329	307
Grp Sat Flow(s),veh/h/ln	1781	1870	1598	1781	1763	1700	1753	1777	1689	1753	1777	1637
Q Serve(g_s), s	7.8	12.5	5.4	5.3	9.8	10.0	9.3	10.7	10.9	5.4	13.0	13.2
Cycle Q Clear(g_c), s	7.8	12.5	5.4	5.3	9.8	10.0	9.3	10.7	10.9	5.4	13.0	13.2
Prop In Lane	1.00		1.00	1.00		0.50	1.00		0.52	1.00		0.70
Lane Grp Cap(c), veh/h	229	444	379	161	350	338	264	575	546	162	471	434
V/C Ratio(X)	0.80	0.73	0.35	0.77	0.68	0.70	0.82	0.52	0.53	0.77	0.70	0.71
Avail Cap(c_a), veh/h	686	840	718	686	792	764	675	798	759	675	798	735
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.0	27.4	24.7	34.6	28.9	29.0	32.1	21.5	21.5	34.5	25.8	25.9
Incr Delay (d2), s/veh	6.2	2.4	0.5	7.4	2.3	2.6	6.1	1.0	1.1	7.5	2.7	3.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	5.6	2.0	2.5	4.1	4.1	4.2	4.3	4.2	2.5	5.4	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.2	29.8	25.2	42.0	31.2	31.6	38.2	22.5	22.7	42.1	28.5	28.9
LnGrp LOS	D	C	C	D	C	C	D	C	C	D	C	C
Approach Vol, veh/h		640			596			805			761	
Approach Delay, s/veh		31.5			33.6			26.8			30.9	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	30.2	12.0	23.5	16.7	25.7	15.0	20.5
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	30.0	35.0	30.0	35.0	30.0	35.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	7.4	12.9	7.3	14.5	11.3	15.2	9.8	12.0
Green Ext Time (p_c), s	0.3	5.1	0.3	2.2	0.6	5.2	0.5	2.8

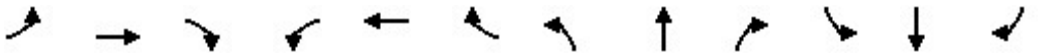
Intersection Summary	
HCM 6th Ctrl Delay	30.4
HCM 6th LOS	C



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	80	32	36	124	39	34	19	514	144	58	604	80
Future Volume (veh/h)	80	32	36	124	39	34	19	514	144	58	604	80
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1870	1856	1856	1900	1885	1885	1870	1885	1900
Adj Flow Rate, veh/h	100	40	45	155	49	42	24	642	180	72	755	100
Peak Hour Factor	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80	0.80
Percent Heavy Veh, %	0	0	0	2	3	3	0	1	1	2	1	0
Cap, veh/h	131	88	99	202	276	233	31	1107	310	91	1379	183
Arrive On Green	0.07	0.11	0.11	0.11	0.15	0.15	0.02	0.40	0.40	0.05	0.44	0.44
Sat Flow, veh/h	1810	812	914	1781	1856	1563	1810	2761	773	1781	3167	419
Grp Volume(v), veh/h	100	0	85	155	49	42	24	416	406	72	427	428
Grp Sat Flow(s),veh/h/ln	1810	0	1726	1781	1856	1563	1810	1791	1744	1781	1791	1796
Q Serve(g_s), s	2.7	0.0	2.3	4.1	1.1	1.2	0.6	8.9	8.9	2.0	8.7	8.7
Cycle Q Clear(g_c), s	2.7	0.0	2.3	4.1	1.1	1.2	0.6	8.9	8.9	2.0	8.7	8.7
Prop In Lane	1.00		0.53	1.00		1.00	1.00		0.44	1.00		0.23
Lane Grp Cap(c), veh/h	131	0	186	202	276	233	31	718	699	91	780	782
V/C Ratio(X)	0.76	0.00	0.46	0.77	0.18	0.18	0.78	0.58	0.58	0.79	0.55	0.55
Avail Cap(c_a), veh/h	923	0	1056	908	1135	956	923	1644	1600	908	1644	1648
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.3	0.0	20.5	21.1	18.2	18.2	24.0	11.5	11.5	23.0	10.3	10.3
Incr Delay (d2), s/veh	3.5	0.0	1.7	2.3	0.3	0.4	14.3	1.1	1.1	5.5	0.9	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	0.9	1.7	0.5	0.4	0.4	3.0	2.9	0.9	2.6	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.8	0.0	22.3	23.4	18.5	18.6	38.3	12.5	12.6	28.5	11.1	11.1
LnGrp LOS	C	A	C	C	B	B	D	B	B	C	B	B
Approach Vol, veh/h		185			246			846			927	
Approach Delay, s/veh		24.2			21.6			13.3			12.5	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	23.7	9.6	9.3	4.8	25.3	7.5	11.3
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0
Max Q Clear Time (g_c+I1), s	4.0	10.9	6.1	4.3	2.6	10.7	4.7	3.2
Green Ext Time (p_c), s	0.1	8.6	0.2	0.4	0.0	8.7	0.1	0.4

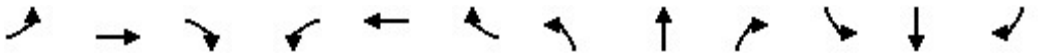
Intersection Summary	
HCM 6th Ctrl Delay	14.8
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	185	354	60	251	240	336	39	308	214	247	331	59
Future Volume (veh/h)	185	354	60	251	240	336	39	308	214	247	331	59
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	195	373	63	264	253	354	41	324	225	260	348	62
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	225	780	130	294	527	460	70	419	355	290	647	548
Arrive On Green	0.13	0.26	0.26	0.17	0.30	0.30	0.04	0.23	0.23	0.17	0.35	0.35
Sat Flow, veh/h	1753	2986	499	1767	1763	1537	1753	1841	1560	1739	1826	1547
Grp Volume(v), veh/h	195	217	219	264	253	354	41	324	225	260	348	62
Grp Sat Flow(s),veh/h/ln	1753	1749	1737	1767	1763	1537	1753	1841	1560	1739	1826	1547
Q Serve(g_s), s	11.3	10.8	11.0	15.1	12.1	21.7	2.4	17.1	13.5	15.2	15.7	2.8
Cycle Q Clear(g_c), s	11.3	10.8	11.0	15.1	12.1	21.7	2.4	17.1	13.5	15.2	15.7	2.8
Prop In Lane	1.00		0.29	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	225	457	454	294	527	460	70	419	355	290	647	548
V/C Ratio(X)	0.87	0.47	0.48	0.90	0.48	0.77	0.58	0.77	0.63	0.90	0.54	0.11
Avail Cap(c_a), veh/h	508	676	672	513	852	743	508	623	528	504	647	548
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	32.2	32.3	42.2	29.7	33.0	48.8	37.4	36.0	42.2	26.6	22.5
Incr Delay (d2), s/veh	3.9	1.6	1.7	5.2	1.4	5.7	2.8	6.6	4.0	5.3	1.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	4.6	4.6	6.8	5.1	8.3	1.1	8.2	5.3	6.7	6.8	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.1	33.9	34.0	47.4	31.1	38.7	51.6	44.1	40.0	47.5	28.3	22.7
LnGrp LOS	D	C	C	D	C	D	D	D	D	D	C	C
Approach Vol, veh/h		631			871			590			670	
Approach Delay, s/veh		38.3			39.2			43.0			35.2	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.2	32.4	8.2	41.6	17.3	36.4	21.2	28.6
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	30.0	40.0	30.0	35.0	30.0	50.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	17.1	13.0	4.4	17.7	13.3	23.7	17.2	19.1
Green Ext Time (p_c), s	0.1	4.8	0.0	3.7	0.1	7.3	0.1	4.5

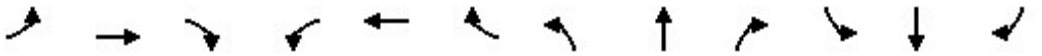
Intersection Summary	
HCM 6th Ctrl Delay	38.8
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	897	36	150	552	18	87	3	266	11	1	48
Future Volume (veh/h)	82	897	36	150	552	18	87	3	266	11	1	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.99	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1885	1870	1856	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	99	1081	43	181	665	20	105	3	320	12	1	52
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.92	0.83	0.92	0.83	0.92	0.92	0.92
Percent Heavy Veh, %	2	1	0	1	1	2	3	2	2	2	2	2
Cap, veh/h	127	1368	54	226	1577	47	486	12	424	111	42	332
Arrive On Green	0.07	0.39	0.39	0.13	0.44	0.44	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	1781	3509	140	1795	3550	107	1364	45	1562	151	155	1225
Grp Volume(v), veh/h	99	552	572	181	335	350	108	0	320	65	0	0
Grp Sat Flow(s),veh/h/ln	1781	1791	1858	1795	1791	1866	1409	0	1562	1531	0	0
Q Serve(g_s), s	3.3	16.6	16.6	6.0	7.8	7.8	1.4	0.0	11.4	0.0	0.0	0.0
Cycle Q Clear(g_c), s	3.3	16.6	16.6	6.0	7.8	7.8	3.2	0.0	11.4	1.8	0.0	0.0
Prop In Lane	1.00		0.08	1.00		0.06	0.97		1.00	0.18		0.80
Lane Grp Cap(c), veh/h	127	698	724	226	795	829	498	0	424	485	0	0
V/C Ratio(X)	0.78	0.79	0.79	0.80	0.42	0.42	0.22	0.00	0.76	0.13	0.00	0.00
Avail Cap(c_a), veh/h	701	1058	1097	707	1058	1102	799	0	769	532	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	27.8	16.4	16.4	25.9	11.6	11.6	17.3	0.0	20.4	16.9	0.0	0.0
Incr Delay (d2), s/veh	3.8	1.9	1.8	2.5	0.3	0.3	0.3	0.0	3.3	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	5.7	5.9	2.5	2.7	2.8	1.1	0.0	4.1	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.6	18.3	18.2	28.4	11.8	11.8	17.5	0.0	23.7	17.0	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	C	B	A	A
Approach Vol, veh/h		1223			866			428			65	
Approach Delay, s/veh		19.3			15.3			22.1			17.0	
Approach LOS		B			B			C			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.7	28.8		20.5	8.4	32.1		20.5				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	24.0	36.0		18.5	24.0	36.0		30.0				
Max Q Clear Time (g_c+I1), s	8.0	18.6		3.8	5.3	9.8		13.4				
Green Ext Time (p_c), s	0.1	5.2		0.2	0.0	3.4		2.0				

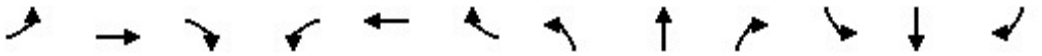
Intersection Summary												
HCM 6th Ctrl Delay			18.4									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	265	468	304	129	305	103	196	407	123	117	435	131
Future Volume (veh/h)	265	468	304	129	305	103	196	407	123	117	435	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1885	1870	1870	1900	1900	1870	1885	1870	1856	1885	1870
Adj Flow Rate, veh/h	285	503	327	139	328	111	211	438	132	126	468	141
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	1	2	2	0	0	2	1	2	3	1	2
Cap, veh/h	327	579	473	176	580	192	253	778	232	161	638	191
Arrive On Green	0.19	0.31	0.31	0.10	0.22	0.22	0.14	0.29	0.29	0.09	0.24	0.24
Sat Flow, veh/h	1753	1885	1539	1781	2645	877	1781	2709	808	1767	2701	807
Grp Volume(v), veh/h	285	503	327	139	222	217	211	288	282	126	309	300
Grp Sat Flow(s),veh/h/ln	1753	1885	1539	1781	1805	1717	1781	1791	1726	1767	1791	1718
Q Serve(g_s), s	14.6	23.3	17.3	7.1	10.1	10.5	10.7	12.7	12.9	6.5	14.7	15.0
Cycle Q Clear(g_c), s	14.6	23.3	17.3	7.1	10.1	10.5	10.7	12.7	12.9	6.5	14.7	15.0
Prop In Lane	1.00		1.00	1.00		0.51	1.00		0.47	1.00		0.47
Lane Grp Cap(c), veh/h	327	579	473	176	395	376	253	514	496	161	423	406
V/C Ratio(X)	0.87	0.87	0.69	0.79	0.56	0.58	0.83	0.56	0.57	0.78	0.73	0.74
Avail Cap(c_a), veh/h	568	713	582	577	682	649	577	677	653	573	677	649
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.6	30.3	28.2	40.8	32.2	32.3	38.7	28.0	28.1	41.2	32.6	32.7
Incr Delay (d2), s/veh	7.2	9.5	2.6	7.7	1.2	1.4	7.1	1.4	1.5	8.2	3.5	3.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.7	11.6	6.4	3.4	4.4	4.4	5.0	5.4	5.3	3.1	6.5	6.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.7	39.8	30.8	48.5	33.4	33.7	45.8	29.4	29.6	49.3	36.1	36.5
LnGrp LOS	D	D	C	D	C	C	D	C	C	D	D	D
Approach Vol, veh/h		1115			578			781			735	
Approach Delay, s/veh		38.2			37.2			33.9			38.5	
Approach LOS		D			D			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	31.6	14.1	33.4	18.1	26.9	22.3	25.3
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	30.0	35.0	30.0	35.0	30.0	35.0	30.0	35.0
Max Q Clear Time (g_c+I1), s	8.5	14.9	9.1	25.3	12.7	17.0	16.6	12.5
Green Ext Time (p_c), s	0.3	4.7	0.3	3.1	0.5	4.7	0.7	2.5

Intersection Summary	
HCM 6th Ctrl Delay	37.0
HCM 6th LOS	D

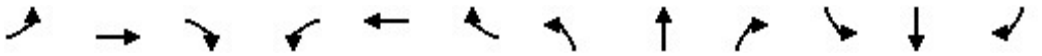


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	131	83	46	195	72	74	41	617	180	66	535	71
Future Volume (veh/h)	131	83	46	195	72	74	41	617	180	66	535	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1856	1885	1900	1900	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	146	92	51	217	80	82	46	686	200	73	594	79
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	3	1	0	0	1	1	0	0	0
Cap, veh/h	189	157	87	269	348	294	57	1066	311	95	1315	174
Arrive On Green	0.10	0.14	0.14	0.15	0.18	0.18	0.03	0.39	0.39	0.05	0.41	0.41
Sat Flow, veh/h	1810	1148	636	1767	1885	1592	1810	2717	792	1810	3185	422
Grp Volume(v), veh/h	146	0	143	217	80	82	46	452	434	73	336	337
Grp Sat Flow(s),veh/h/ln	1810	0	1784	1767	1885	1592	1810	1791	1718	1810	1805	1802
Q Serve(g_s), s	4.7	0.0	4.5	7.1	2.2	2.7	1.5	12.3	12.4	2.4	8.1	8.1
Cycle Q Clear(g_c), s	4.7	0.0	4.5	7.1	2.2	2.7	1.5	12.3	12.4	2.4	8.1	8.1
Prop In Lane	1.00		0.36	1.00		1.00	1.00		0.46	1.00		0.23
Lane Grp Cap(c), veh/h	189	0	244	269	348	294	57	703	674	95	746	744
V/C Ratio(X)	0.77	0.00	0.58	0.81	0.23	0.28	0.80	0.64	0.64	0.77	0.45	0.45
Avail Cap(c_a), veh/h	752	0	889	734	940	793	752	1339	1284	752	1350	1347
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.2	0.0	24.4	24.6	20.9	21.1	28.9	14.9	14.9	28.2	12.7	12.8
Incr Delay (d2), s/veh	2.5	0.0	2.2	2.2	0.3	0.5	9.2	1.4	1.5	4.9	0.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	0.0	1.9	3.0	0.9	1.0	0.8	4.5	4.4	1.1	2.8	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	0.0	26.6	26.8	21.2	21.6	38.2	16.3	16.3	33.1	13.3	13.4
LnGrp LOS	C	A	C	C	C	C	D	B	B	C	B	B
Approach Vol, veh/h		289			379			932			746	
Approach Delay, s/veh		27.7			24.5			17.4			15.3	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.1	27.6	13.2	12.2	5.9	28.9	10.3	15.1
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0
Max Q Clear Time (g_c+I1), s	4.4	14.4	9.1	6.5	3.5	10.1	6.7	4.7
Green Ext Time (p_c), s	0.1	9.3	0.3	0.8	0.0	6.4	0.2	0.7

Intersection Summary	
HCM 6th Ctrl Delay	19.1
HCM 6th LOS	B

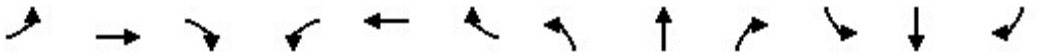
CUMULATIVE CONDITIONS



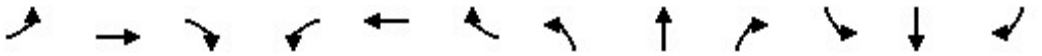
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	247	312	104	440	796	294	309	463	418	318	484	517
Future Volume (veh/h)	247	312	104	440	796	294	309	463	418	318	484	517
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	260	328	109	463	838	309	325	487	440	335	509	544
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	263	531	173	485	829	305	336	879	701	333	607	503
Arrive On Green	0.15	0.21	0.21	0.27	0.33	0.33	0.19	0.17	0.17	0.19	0.17	0.17
Sat Flow, veh/h	1753	2582	842	1767	2513	925	1753	5025	1560	1739	3469	1547
Grp Volume(v), veh/h	260	220	217	463	587	560	325	487	440	335	509	544
Grp Sat Flow(s),veh/h/ln	1753	1749	1676	1767	1763	1675	1753	1675	1560	1739	1735	1547
Q Serve(g_s), s	17.8	13.7	14.2	30.9	39.6	39.6	22.1	10.6	21.0	23.0	17.0	21.0
Cycle Q Clear(g_c), s	17.8	13.7	14.2	30.9	39.6	39.6	22.1	10.6	21.0	23.0	17.0	21.0
Prop In Lane	1.00		0.50	1.00		0.55	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	263	360	345	485	582	553	336	879	701	333	607	503
V/C Ratio(X)	0.99	0.61	0.63	0.96	1.01	1.01	0.97	0.55	0.63	1.01	0.84	1.08
Avail Cap(c_a), veh/h	263	360	345	486	582	553	336	879	701	333	607	503
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.9	43.3	43.5	42.8	40.2	40.2	48.1	45.2	25.3	48.5	47.9	40.5
Incr Delay (d2), s/veh	52.1	4.5	5.2	29.4	39.7	41.5	40.0	1.3	2.6	50.6	11.0	64.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.4	6.2	6.2	16.9	22.7	21.8	13.1	4.4	9.7	14.4	8.1	23.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	103.0	47.8	48.7	72.2	79.9	81.7	88.1	46.5	27.9	99.1	58.9	104.5
LnGrp LOS	F	D	D	E	F	F	F	D	C	F	E	F
Approach Vol, veh/h		697			1610			1252			1388	
Approach Delay, s/veh		68.7			78.3			50.8			86.5	
Approach LOS		E			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	36.9	30.1	27.0	26.0	22.0	45.0	27.0	26.0
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	33.0	24.6	23.0	21.0	18.0	39.6	23.0	21.0
Max Q Clear Time (g_c+I1), s	32.9	16.2	24.1	23.0	19.8	41.6	25.0	23.0
Green Ext Time (p_c), s	0.0	2.6	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	72.3
HCM 6th LOS	E



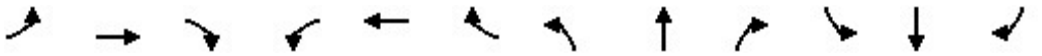
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	876	44	213	1150	0	93	0	221	0	0	0
Future Volume (veh/h)	0	876	44	213	1150	0	93	0	221	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1841	0	1767	0	1885			
Adj Flow Rate, veh/h	0	952	48	232	1250	0	101	0	240			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	2	1	0	1	4	0	9	0	1			
Cap, veh/h	4	1290	65	287	2143	0	345	0	328			
Arrive On Green	0.00	0.37	0.37	0.16	0.61	0.00	0.21	0.00	0.21			
Sat Flow, veh/h	1781	3470	175	1795	3589	0	1682	0	1598			
Grp Volume(v), veh/h	0	491	509	232	1250	0	101	0	240			
Grp Sat Flow(s),veh/h/ln	1781	1791	1854	1795	1749	0	1682	0	1598			
Q Serve(g_s), s	0.0	11.7	11.7	6.2	10.6	0.0	2.5	0.0	6.9			
Cycle Q Clear(g_c), s	0.0	11.7	11.7	6.2	10.6	0.0	2.5	0.0	6.9			
Prop In Lane	1.00		0.09	1.00		0.00	1.00		1.00			
Lane Grp Cap(c), veh/h	4	666	689	287	2143	0	345	0	328			
V/C Ratio(X)	0.00	0.74	0.74	0.81	0.58	0.00	0.29	0.00	0.73			
Avail Cap(c_a), veh/h	198	1197	1239	636	3187	0	903	0	857			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	0.0	13.4	13.4	20.0	5.8	0.0	16.6	0.0	18.4			
Incr Delay (d2), s/veh	0.0	1.2	1.2	2.1	0.2	0.0	0.6	0.0	3.8			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	3.7	3.8	2.4	2.2	0.0	0.9	0.0	2.5			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	14.6	14.6	22.1	6.0	0.0	17.2	0.0	22.2			
LnGrp LOS	A	B	B	C	A	A	B	A	C			
Approach Vol, veh/h		1000			1482			341				
Approach Delay, s/veh		14.6			8.5			20.7				
Approach LOS		B			A			C				
Timer - Assigned Phs	1	2			5	6		8				
Phs Duration (G+Y+Rc), s	11.9	23.4			0.0	35.3		14.1				
Change Period (Y+Rc), s	4.0	5.0			4.0	5.0		4.0				
Max Green Setting (Gmax), s	17.5	33.0			5.5	45.0		26.5				
Max Q Clear Time (g_c+I1), s	8.2	13.7			0.0	12.6		8.9				
Green Ext Time (p_c), s	0.1	4.6			0.0	9.2		1.3				
Intersection Summary												
HCM 6th Ctrl Delay			12.1									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	401	413	161	120	611	122	204	505	152	114	474	511
Future Volume (veh/h)	401	413	161	120	611	122	204	505	152	114	474	511
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1900	1870	1856	1885	1841	1870	1856	1841	1870	1870
Adj Flow Rate, veh/h	436	449	175	130	664	133	222	549	165	124	515	555
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	0	2	3	1	4	2	3	4	2	2
Cap, veh/h	356	655	561	160	702	141	193	750	225	140	444	388
Arrive On Green	0.20	0.35	0.35	0.09	0.24	0.24	0.11	0.28	0.28	0.08	0.25	0.25
Sat Flow, veh/h	1781	1870	1602	1781	2927	586	1753	2679	802	1753	1777	1552
Grp Volume(v), veh/h	436	449	175	130	400	397	222	363	351	124	515	555
Grp Sat Flow(s),veh/h/ln	1781	1870	1602	1781	1763	1749	1753	1777	1704	1753	1777	1552
Q Serve(g_s), s	20.0	20.5	8.0	7.2	22.3	22.3	11.0	18.5	18.7	7.0	25.0	25.0
Cycle Q Clear(g_c), s	20.0	20.5	8.0	7.2	22.3	22.3	11.0	18.5	18.7	7.0	25.0	25.0
Prop In Lane	1.00		1.00	1.00		0.33	1.00		0.47	1.00		1.00
Lane Grp Cap(c), veh/h	356	655	561	160	423	420	193	498	477	140	444	388
V/C Ratio(X)	1.22	0.69	0.31	0.81	0.94	0.95	1.15	0.73	0.73	0.88	1.16	1.43
Avail Cap(c_a), veh/h	356	655	561	196	423	420	193	498	477	140	444	388
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.0	27.8	23.7	44.7	37.3	37.4	44.5	32.6	32.6	45.5	37.5	37.5
Incr Delay (d2), s/veh	123.3	3.0	0.3	19.0	30.1	30.6	111.4	5.9	6.3	43.6	94.2	208.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.7	9.4	3.0	4.0	12.8	12.8	10.7	8.5	8.3	4.7	22.0	31.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	163.3	30.7	24.0	63.7	67.4	68.0	155.9	38.4	38.9	89.2	131.7	245.7
LnGrp LOS	F	C	C	E	E	E	F	D	D	F	F	F
Approach Vol, veh/h		1060			927			936			1194	
Approach Delay, s/veh		84.1			67.1			66.5			180.3	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	33.0	14.0	40.0	16.0	30.0	25.0	29.0
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	8.0	28.0	11.0	33.0	11.0	25.0	20.0	24.0
Max Q Clear Time (g_c+I1), s	9.0	20.7	9.2	22.5	13.0	27.0	22.0	24.3
Green Ext Time (p_c), s	0.0	3.3	0.1	2.5	0.0	0.0	0.0	0.0

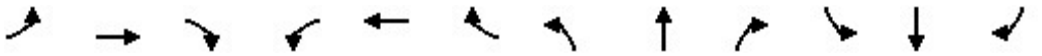
Intersection Summary	
HCM 6th Ctrl Delay	104.2
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	31	28	135	97	36	35	885	157	89	1018	91
Future Volume (veh/h)	78	31	28	135	97	36	35	885	157	89	1018	91
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1870	1856	1856	1900	1885	1885	1870	1885	1900
Adj Flow Rate, veh/h	85	34	30	147	105	39	38	962	171	97	1107	99
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	2	3	3	0	1	1	2	1	0
Cap, veh/h	110	81	72	187	245	206	46	1397	248	124	1672	149
Arrive On Green	0.06	0.09	0.09	0.11	0.13	0.13	0.03	0.46	0.46	0.07	0.50	0.50
Sat Flow, veh/h	1810	926	817	1781	1856	1562	1810	3038	540	1781	3317	296
Grp Volume(v), veh/h	85	0	64	147	105	39	38	567	566	97	597	609
Grp Sat Flow(s),veh/h/ln	1810	0	1743	1781	1856	1562	1810	1791	1787	1781	1791	1822
Q Serve(g_s), s	2.7	0.0	2.0	4.6	3.0	1.3	1.2	14.4	14.4	3.1	14.3	14.3
Cycle Q Clear(g_c), s	2.7	0.0	2.0	4.6	3.0	1.3	1.2	14.4	14.4	3.1	14.3	14.3
Prop In Lane	1.00		0.47	1.00		1.00	1.00		0.30	1.00		0.16
Lane Grp Cap(c), veh/h	110	0	153	187	245	206	46	823	821	124	903	919
V/C Ratio(X)	0.77	0.00	0.42	0.78	0.43	0.19	0.83	0.69	0.69	0.78	0.66	0.66
Avail Cap(c_a), veh/h	314	0	666	309	709	596	94	1119	1116	186	1212	1234
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.7	0.0	24.9	25.1	23.0	22.3	27.9	12.3	12.3	26.4	10.6	10.6
Incr Delay (d2), s/veh	4.3	0.0	1.8	2.7	1.2	0.4	13.0	1.5	1.5	6.0	1.2	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	0.9	2.0	1.3	0.5	0.7	4.9	4.9	1.4	4.4	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.0	0.0	26.7	27.9	24.2	22.7	41.0	13.8	13.8	32.3	11.8	11.8
LnGrp LOS	C	A	C	C	C	C	D	B	B	C	B	B
Approach Vol, veh/h		149			291			1171			1303	
Approach Delay, s/veh		29.2			25.8			14.7			13.3	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	30.5	10.1	9.0	5.5	33.0	7.5	11.6
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	36.0	10.0	22.0	3.0	39.0	10.0	22.0
Max Q Clear Time (g_c+I1), s	5.1	16.4	6.6	4.0	3.2	16.3	4.7	5.0
Green Ext Time (p_c), s	0.0	10.0	0.1	0.2	0.0	11.4	0.0	0.6

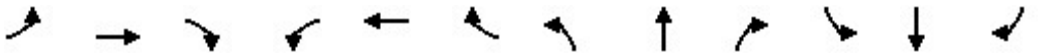
Intersection Summary	
HCM 6th Ctrl Delay	15.9
HCM 6th LOS	B



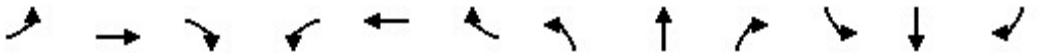
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	675	516	241	447	298	599	257	591	314	224	678	266
Future Volume (veh/h)	675	516	241	447	298	599	257	591	314	224	678	266
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	711	543	254	471	314	631	271	622	331	236	714	280
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	589	668	312	480	398	350	225	799	672	257	620	796
Arrive On Green	0.34	0.29	0.29	0.27	0.23	0.23	0.13	0.16	0.16	0.15	0.18	0.18
Sat Flow, veh/h	1753	2304	1075	1767	1763	1551	1753	5025	1560	1739	3469	1547
Grp Volume(v), veh/h	711	412	385	471	314	631	271	622	331	236	714	280
Grp Sat Flow(s),veh/h/ln	1753	1749	1630	1767	1763	1551	1753	1675	1560	1739	1735	1547
Q Serve(g_s), s	47.0	30.6	30.8	37.1	23.5	31.6	18.0	16.6	21.5	18.7	25.0	15.0
Cycle Q Clear(g_c), s	47.0	30.6	30.8	37.1	23.5	31.6	18.0	16.6	21.5	18.7	25.0	15.0
Prop In Lane	1.00		0.66	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	589	507	473	480	398	350	225	799	672	257	620	796
V/C Ratio(X)	1.21	0.81	0.82	0.98	0.79	1.80	1.20	0.78	0.49	0.92	1.15	0.35
Avail Cap(c_a), veh/h	589	507	473	480	398	350	225	799	672	261	620	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.91	0.91	0.91	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	46.2	46.2	50.7	51.1	54.2	61.0	56.5	28.8	58.8	57.5	20.2
Incr Delay (d2), s/veh	108.9	13.3	14.3	34.3	13.5	371.6	125.5	5.7	1.2	33.5	86.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	37.5	14.8	14.0	20.5	11.6	48.1	15.8	7.4	8.1	10.5	18.2	5.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	155.4	59.4	60.5	85.0	64.6	425.8	186.5	62.2	30.0	92.3	143.6	20.7
LnGrp LOS	F	E	E	F	E	F	F	E	C	F	F	C
Approach Vol, veh/h		1508			1416			1224			1230	
Approach Delay, s/veh		105.0			232.3			81.0			105.8	
Approach LOS		F			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.0	46.0	22.0	30.0	51.0	37.0	24.7	27.3
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	38.0	40.6	18.0	25.0	47.0	31.6	21.0	22.0
Max Q Clear Time (g_c+I1), s	39.1	32.8	20.0	27.0	49.0	33.6	20.7	23.5
Green Ext Time (p_c), s	0.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	133.2
HCM 6th LOS	F



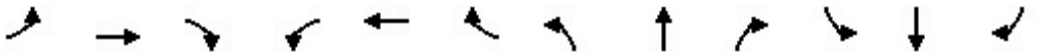
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	1	1218	53	165	958	0	98	0	290	0	0	0
Future Volume (veh/h)	1	1218	53	165	958	0	98	0	290	0	0	0
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0			
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		1.00			
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Work Zone On Approach		No			No			No				
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1885	0	1856	0	1870			
Adj Flow Rate, veh/h	1	1324	58	179	1041	0	107	0	315			
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92			
Percent Heavy Veh, %	2	1	0	1	1	0	3	0	2			
Cap, veh/h	3	1573	69	220	2048	0	421	0	378			
Arrive On Green	0.00	0.45	0.45	0.12	0.57	0.00	0.24	0.00	0.24			
Sat Flow, veh/h	1781	3494	153	1795	3676	0	1767	0	1585			
Grp Volume(v), veh/h	1	678	704	179	1041	0	107	0	315			
Grp Sat Flow(s),veh/h/ln	1781	1791	1855	1795	1791	0	1767	0	1585			
Q Serve(g_s), s	0.0	23.0	23.2	6.7	12.1	0.0	3.4	0.0	13.0			
Cycle Q Clear(g_c), s	0.0	23.0	23.2	6.7	12.1	0.0	3.4	0.0	13.0			
Prop In Lane	1.00		0.08	1.00		0.00	1.00		1.00			
Lane Grp Cap(c), veh/h	3	806	835	220	2048	0	421	0	378			
V/C Ratio(X)	0.39	0.84	0.84	0.81	0.51	0.00	0.25	0.00	0.83			
Avail Cap(c_a), veh/h	158	989	1024	323	2305	0	683	0	612			
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	1.00			
Uniform Delay (d), s/veh	34.4	16.7	16.8	29.4	8.9	0.0	21.3	0.0	24.9			
Incr Delay (d2), s/veh	31.5	5.2	5.1	6.0	0.1	0.0	0.4	0.0	6.2			
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
%ile BackOfQ(50%),veh/ln	0.0	8.7	9.1	3.1	3.8	0.0	1.3	0.0	5.1			
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	65.8	21.9	21.9	35.4	9.0	0.0	21.6	0.0	31.1			
LnGrp LOS	E	C	C	D	A	A	C	A	C			
Approach Vol, veh/h		1383			1220			422				
Approach Delay, s/veh		21.9			12.9			28.7				
Approach LOS		C			B			C				
Timer - Assigned Phs	1	2			5	6		8				
Phs Duration (G+Y+Rc), s	12.4	36.0			4.1	44.4		20.4				
Change Period (Y+Rc), s	4.0	5.0			4.0	5.0		4.0				
Max Green Setting (Gmax), s	12.4	38.0			6.1	44.3		26.6				
Max Q Clear Time (g_c+I1), s	8.7	25.2			2.0	14.1		15.0				
Green Ext Time (p_c), s	0.0	5.8			0.0	6.9		1.4				
Intersection Summary												
HCM 6th Ctrl Delay			19.2									
HCM 6th LOS			B									



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	309	728	325	161	496	107	232	526	158	124	575	202
Future Volume (veh/h)	309	728	325	161	496	107	232	526	158	124	575	202
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.99	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1885	1870	1870	1900	1900	1870	1885	1870	1856	1885	1870
Adj Flow Rate, veh/h	332	783	349	173	533	115	249	566	170	133	618	217
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	1	2	2	0	0	2	1	2	3	1	2
Cap, veh/h	360	723	592	163	794	170	238	726	217	159	581	204
Arrive On Green	0.21	0.38	0.38	0.09	0.27	0.27	0.13	0.27	0.27	0.09	0.22	0.22
Sat Flow, veh/h	1753	1885	1544	1781	2944	632	1781	2706	810	1767	2582	905
Grp Volume(v), veh/h	332	783	349	173	326	322	249	374	362	133	428	407
Grp Sat Flow(s),veh/h/ln	1753	1885	1544	1781	1805	1772	1781	1791	1725	1767	1791	1697
Q Serve(g_s), s	22.3	46.0	21.6	11.0	19.3	19.5	16.0	23.2	23.3	8.9	27.0	27.0
Cycle Q Clear(g_c), s	22.3	46.0	21.6	11.0	19.3	19.5	16.0	23.2	23.3	8.9	27.0	27.0
Prop In Lane	1.00		1.00	1.00		0.36	1.00		0.47	1.00		0.53
Lane Grp Cap(c), veh/h	360	723	592	163	487	478	238	481	463	159	403	382
V/C Ratio(X)	0.92	1.08	0.59	1.06	0.67	0.67	1.05	0.78	0.78	0.84	1.06	1.07
Avail Cap(c_a), veh/h	409	723	592	163	487	478	238	481	463	177	403	382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.7	37.0	29.5	54.5	39.1	39.1	52.0	40.6	40.6	53.7	46.5	46.5
Incr Delay (d2), s/veh	24.5	58.4	1.5	87.1	3.5	3.7	71.7	8.4	8.9	26.2	62.5	64.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.0	32.2	8.1	8.8	8.9	8.9	11.8	11.2	10.9	5.0	18.7	17.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.2	95.4	31.0	141.6	42.6	42.9	123.7	49.0	49.6	80.0	109.0	110.9
LnGrp LOS	E	F	C	F	D	D	F	D	D	E	F	F
Approach Vol, veh/h		1464			821			985			968	
Approach Delay, s/veh		74.6			63.6			68.1			105.8	
Approach LOS		E			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.8	37.2	16.0	51.0	21.0	32.0	29.7	37.3
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	12.0	31.0	11.0	46.0	16.0	27.0	28.0	29.0
Max Q Clear Time (g_c+I1), s	10.9	25.3	13.0	48.0	18.0	29.0	24.3	21.5
Green Ext Time (p_c), s	0.0	2.7	0.0	0.0	0.0	0.0	0.4	2.3

Intersection Summary	
HCM 6th Ctrl Delay	78.1
HCM 6th LOS	E

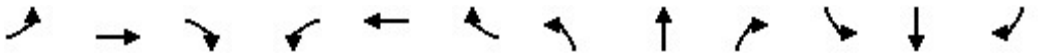


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	239	130	49	214	70	123	32	777	197	124	829	66
Future Volume (veh/h)	239	130	49	214	70	123	32	777	197	124	829	66
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1856	1885	1900	1900	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	260	141	53	233	76	134	35	845	214	135	901	72
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	3	1	0	0	1	1	0	0	0
Cap, veh/h	304	203	76	275	268	225	43	1047	265	171	1494	119
Arrive On Green	0.17	0.15	0.15	0.16	0.14	0.14	0.02	0.37	0.37	0.09	0.44	0.44
Sat Flow, veh/h	1810	1315	494	1767	1885	1586	1810	2813	712	1810	3373	270
Grp Volume(v), veh/h	260	0	194	233	76	134	35	538	521	135	482	491
Grp Sat Flow(s),veh/h/ln	1810	0	1810	1767	1885	1586	1810	1791	1734	1810	1805	1838
Q Serve(g_s), s	10.0	0.0	7.3	9.2	2.6	5.7	1.4	19.3	19.3	5.2	14.5	14.5
Cycle Q Clear(g_c), s	10.0	0.0	7.3	9.2	2.6	5.7	1.4	19.3	19.3	5.2	14.5	14.5
Prop In Lane	1.00		0.27	1.00		1.00	1.00		0.41	1.00		0.15
Lane Grp Cap(c), veh/h	304	0	279	275	268	225	43	667	646	171	799	814
V/C Ratio(X)	0.86	0.00	0.69	0.85	0.28	0.59	0.82	0.81	0.81	0.79	0.60	0.60
Avail Cap(c_a), veh/h	354	0	582	321	579	488	101	751	727	202	857	873
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.9	0.0	28.7	29.4	27.5	28.8	34.8	20.2	20.2	31.7	15.2	15.2
Incr Delay (d2), s/veh	14.7	0.0	3.1	14.8	0.6	2.5	13.0	6.4	6.6	13.6	1.3	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.4	0.0	3.3	4.9	1.2	2.3	0.7	8.4	8.2	2.8	5.4	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.6	0.0	31.8	44.2	28.0	31.3	47.8	26.5	26.8	45.3	16.5	16.5
LnGrp LOS	D	A	C	D	C	C	D	C	C	D	B	B
Approach Vol, veh/h		454			443			1094			1108	
Approach Delay, s/veh		38.6			37.5			27.3			20.0	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.7	30.7	15.1	15.0	5.7	35.7	16.0	14.2
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	8.0	30.0	13.0	23.0	4.0	34.0	14.0	22.0
Max Q Clear Time (g_c+I1), s	7.2	21.3	11.2	9.3	3.4	16.5	12.0	7.7
Green Ext Time (p_c), s	0.0	5.3	0.1	0.8	0.0	7.7	0.1	0.7

Intersection Summary	
HCM 6th Ctrl Delay	27.8
HCM 6th LOS	C

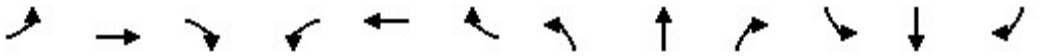
CUMULATIVE PLUS PROJECT



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	247	321	104	450	824	331	309	463	421	330	484	517
Future Volume (veh/h)	247	321	104	450	824	331	309	463	421	330	484	517
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	260	338	109	474	867	348	325	487	443	347	509	544
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	263	534	169	486	808	323	336	879	702	333	607	503
Arrive On Green	0.15	0.20	0.20	0.28	0.33	0.33	0.19	0.17	0.17	0.19	0.17	0.17
Sat Flow, veh/h	1753	2603	825	1767	2449	978	1753	5025	1560	1739	3469	1547
Grp Volume(v), veh/h	260	225	222	474	623	592	325	487	443	347	509	544
Grp Sat Flow(s),veh/h/ln	1753	1749	1679	1767	1763	1665	1753	1675	1560	1739	1735	1547
Q Serve(g_s), s	17.8	14.1	14.5	31.9	39.6	39.6	22.1	10.6	21.0	23.0	17.0	21.0
Cycle Q Clear(g_c), s	17.8	14.1	14.5	31.9	39.6	39.6	22.1	10.6	21.0	23.0	17.0	21.0
Prop In Lane	1.00		0.49	1.00		0.59	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	263	358	344	486	582	549	336	879	702	333	607	503
V/C Ratio(X)	0.99	0.63	0.64	0.98	1.07	1.08	0.97	0.55	0.63	1.04	0.84	1.08
Avail Cap(c_a), veh/h	263	358	344	486	582	549	336	879	702	333	607	503
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.9	43.5	43.7	43.1	40.2	40.2	48.1	45.2	25.3	48.5	47.9	40.5
Incr Delay (d2), s/veh	52.1	4.9	5.7	34.2	57.7	61.0	40.0	1.3	2.6	60.4	11.0	64.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.4	6.4	6.4	17.9	25.6	24.7	13.1	4.4	9.8	15.3	8.1	23.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	103.0	48.5	49.4	77.3	97.9	101.2	88.1	46.5	28.0	108.9	58.9	104.5
LnGrp LOS	F	D	D	E	F	F	F	D	C	F	E	F
Approach Vol, veh/h		707			1689			1255			1400	
Approach Delay, s/veh		68.8			93.3			50.8			89.0	
Approach LOS		E			F			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	37.0	30.0	27.0	26.0	22.0	45.0	27.0	26.0
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	33.0	24.6	23.0	21.0	18.0	39.6	23.0	21.0
Max Q Clear Time (g_c+I1), s	33.9	16.5	24.1	23.0	19.8	41.6	25.0	23.0
Green Ext Time (p_c), s	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0

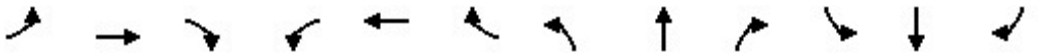
Intersection Summary	
HCM 6th Ctrl Delay	78.1
HCM 6th LOS	E



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	24	876	44	213	1150	5	93	1	221	17	2	75
Future Volume (veh/h)	24	876	44	213	1150	5	93	1	221	17	2	75
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1841	1870	1767	1870	1885	1870	1870	1870
Adj Flow Rate, veh/h	26	952	48	232	1250	5	101	1	240	18	2	82
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	1	0	1	4	2	9	2	1	2	2	2
Cap, veh/h	43	1277	64	286	1797	7	448	4	346	111	39	274
Arrive On Green	0.02	0.37	0.37	0.16	0.50	0.50	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	1781	3470	175	1795	3573	14	1411	17	1587	127	179	1256
Grp Volume(v), veh/h	26	491	509	232	612	643	102	0	240	102	0	0
Grp Sat Flow(s),veh/h/ln	1781	1791	1854	1795	1749	1838	1429	0	1587	1562	0	0
Q Serve(g_s), s	0.7	12.2	12.2	6.4	13.7	13.7	0.0	0.0	7.1	0.0	0.0	0.0
Cycle Q Clear(g_c), s	0.7	12.2	12.2	6.4	13.7	13.7	2.4	0.0	7.1	2.7	0.0	0.0
Prop In Lane	1.00		0.09	1.00		0.01	0.99		1.00	0.18		0.80
Lane Grp Cap(c), veh/h	43	659	682	286	880	925	452	0	346	424	0	0
V/C Ratio(X)	0.60	0.75	0.75	0.81	0.70	0.70	0.23	0.00	0.69	0.24	0.00	0.00
Avail Cap(c_a), veh/h	192	1157	1197	615	1540	1619	848	0	823	637	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	24.7	14.1	14.1	20.7	9.7	9.7	16.6	0.0	18.4	16.7	0.0	0.0
Incr Delay (d2), s/veh	5.0	1.3	1.2	2.1	0.7	0.7	0.3	0.0	3.0	0.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.9	4.0	2.5	3.9	4.1	0.9	0.0	2.5	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.7	15.3	15.3	22.9	10.4	10.4	16.9	0.0	21.4	16.9	0.0	0.0
LnGrp LOS	C	B	B	C	B	B	B	A	C	B	A	A
Approach Vol, veh/h		1026			1487			342			102	
Approach Delay, s/veh		15.7			12.4			20.0			16.9	
Approach LOS		B			B			C			B	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.1	23.8		15.2	5.2	30.7		15.2				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	17.5	33.0		18.5	5.5	45.0		26.5				
Max Q Clear Time (g_c+I1), s	8.4	14.2		4.7	2.7	15.7		9.1				
Green Ext Time (p_c), s	0.1	4.6		0.4	0.0	7.9		1.6				

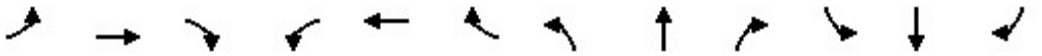
Intersection Summary			
HCM 6th Ctrl Delay		14.6	
HCM 6th LOS		B	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	401	421	170	120	613	124	207	506	152	120	479	511
Future Volume (veh/h)	401	421	170	120	613	124	207	506	152	120	479	511
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1900	1870	1856	1885	1841	1870	1856	1841	1870	1870
Adj Flow Rate, veh/h	436	458	185	130	666	135	225	550	165	130	521	555
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	0	2	3	1	4	2	3	4	2	2
Cap, veh/h	356	655	561	160	701	142	193	751	224	140	444	388
Arrive On Green	0.20	0.35	0.35	0.09	0.24	0.24	0.11	0.28	0.28	0.08	0.25	0.25
Sat Flow, veh/h	1781	1870	1602	1781	2920	591	1753	2680	801	1753	1777	1552
Grp Volume(v), veh/h	436	458	185	130	402	399	225	364	351	130	521	555
Grp Sat Flow(s),veh/h/ln	1781	1870	1602	1781	1763	1748	1753	1777	1704	1753	1777	1552
Q Serve(g_s), s	20.0	21.1	8.5	7.2	22.4	22.5	11.0	18.5	18.7	7.4	25.0	25.0
Cycle Q Clear(g_c), s	20.0	21.1	8.5	7.2	22.4	22.5	11.0	18.5	18.7	7.4	25.0	25.0
Prop In Lane	1.00		1.00	1.00		0.34	1.00		0.47	1.00		1.00
Lane Grp Cap(c), veh/h	356	655	561	160	423	420	193	498	477	140	444	388
V/C Ratio(X)	1.22	0.70	0.33	0.81	0.95	0.95	1.17	0.73	0.74	0.93	1.17	1.43
Avail Cap(c_a), veh/h	356	655	561	196	423	420	193	498	477	140	444	388
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.0	27.9	23.9	44.7	37.4	37.4	44.5	32.6	32.6	45.7	37.5	37.5
Incr Delay (d2), s/veh	123.3	3.3	0.3	19.0	31.1	31.7	117.0	5.9	6.3	54.3	99.3	208.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	20.7	9.7	3.2	4.0	13.0	13.0	10.9	8.5	8.3	5.2	22.6	31.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	163.3	31.2	24.2	63.7	68.6	69.1	161.5	38.5	39.0	100.1	136.8	245.7
LnGrp LOS	F	C	C	E	E	E	F	D	D	F	F	F
Approach Vol, veh/h		1079			931			940			1206	
Approach Delay, s/veh		83.4			68.1			68.1			183.0	
Approach LOS		F			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	33.0	14.0	40.0	16.0	30.0	25.0	29.0
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	8.0	28.0	11.0	33.0	11.0	25.0	20.0	24.0
Max Q Clear Time (g_c+I1), s	9.4	20.7	9.2	23.1	13.0	27.0	22.0	24.5
Green Ext Time (p_c), s	0.0	3.3	0.1	2.5	0.0	0.0	0.0	0.0

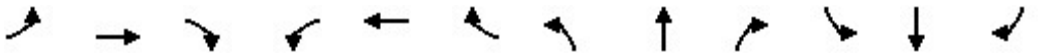
Intersection Summary	
HCM 6th Ctrl Delay	105.4
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	87	33	39	135	98	36	38	885	157	89	1018	94
Future Volume (veh/h)	87	33	39	135	98	36	38	885	157	89	1018	94
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		0.97
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1870	1856	1856	1900	1885	1885	1870	1885	1900
Adj Flow Rate, veh/h	95	36	42	147	107	39	41	962	171	97	1107	102
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	2	3	3	0	1	1	2	1	0
Cap, veh/h	123	76	89	187	247	208	50	1386	246	124	1648	152
Arrive On Green	0.07	0.10	0.10	0.11	0.13	0.13	0.03	0.46	0.46	0.07	0.50	0.50
Sat Flow, veh/h	1810	795	928	1781	1856	1562	1810	3038	540	1781	3307	304
Grp Volume(v), veh/h	95	0	78	147	107	39	41	567	566	97	599	610
Grp Sat Flow(s),veh/h/ln	1810	0	1723	1781	1856	1562	1810	1791	1787	1781	1791	1821
Q Serve(g_s), s	3.0	0.0	2.5	4.7	3.1	1.3	1.3	14.8	14.8	3.1	14.8	14.8
Cycle Q Clear(g_c), s	3.0	0.0	2.5	4.7	3.1	1.3	1.3	14.8	14.8	3.1	14.8	14.8
Prop In Lane	1.00		0.54	1.00		1.00	1.00		0.30	1.00		0.17
Lane Grp Cap(c), veh/h	123	0	165	187	247	208	50	817	815	124	892	907
V/C Ratio(X)	0.77	0.00	0.47	0.79	0.43	0.19	0.82	0.69	0.69	0.78	0.67	0.67
Avail Cap(c_a), veh/h	309	0	647	304	697	586	93	1100	1098	182	1192	1212
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.9	0.0	25.1	25.6	23.4	22.6	28.3	12.7	12.7	26.8	11.1	11.1
Incr Delay (d2), s/veh	3.8	0.0	2.1	2.7	1.2	0.4	11.6	1.6	1.6	6.7	1.3	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.0	1.1	2.0	1.4	0.5	0.7	5.1	5.1	1.4	4.7	4.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.7	0.0	27.2	28.3	24.6	23.0	39.9	14.3	14.3	33.5	12.3	12.4
LnGrp LOS	C	A	C	C	C	C	D	B	B	C	B	B
Approach Vol, veh/h		173			293			1174			1306	
Approach Delay, s/veh		29.1			26.2			15.2			13.9	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.1	30.7	10.2	9.6	5.6	33.2	8.0	11.8
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	6.0	36.0	10.0	22.0	3.0	39.0	10.0	22.0
Max Q Clear Time (g_c+I1), s	5.1	16.8	6.7	4.5	3.3	16.8	5.0	5.1
Green Ext Time (p_c), s	0.0	9.9	0.1	0.3	0.0	11.3	0.0	0.6

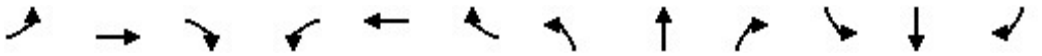
Intersection Summary	
HCM 6th Ctrl Delay	16.6
HCM 6th LOS	B



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	675	546	241	454	316	622	257	591	325	263	678	266
Future Volume (veh/h)	675	546	241	454	316	622	257	591	325	263	678	266
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	711	575	254	478	333	655	271	622	342	277	714	280
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	589	681	300	480	398	350	225	790	669	261	620	796
Arrive On Green	0.34	0.29	0.29	0.27	0.23	0.23	0.13	0.16	0.16	0.15	0.18	0.18
Sat Flow, veh/h	1753	2350	1036	1767	1763	1551	1753	5025	1560	1739	3469	1547
Grp Volume(v), veh/h	711	428	401	478	333	655	271	622	342	277	714	280
Grp Sat Flow(s),veh/h/ln	1753	1749	1637	1767	1763	1551	1753	1675	1560	1739	1735	1547
Q Serve(g_s), s	47.0	32.2	32.3	37.8	25.2	31.6	18.0	16.7	22.0	21.0	25.0	15.0
Cycle Q Clear(g_c), s	47.0	32.2	32.3	37.8	25.2	31.6	18.0	16.7	22.0	21.0	25.0	15.0
Prop In Lane	1.00		0.63	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	589	507	475	480	398	350	225	790	669	261	620	796
V/C Ratio(X)	1.21	0.84	0.85	1.00	0.84	1.87	1.20	0.79	0.51	1.06	1.15	0.35
Avail Cap(c_a), veh/h	589	507	475	480	398	350	225	790	669	261	620	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.84	0.84	0.84	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	46.7	46.7	50.9	51.7	54.2	61.0	56.8	29.3	59.5	57.5	20.2
Incr Delay (d2), s/veh	108.9	15.6	16.7	36.7	16.0	401.3	125.5	6.1	1.3	73.0	86.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	37.5	15.8	15.0	21.1	12.7	51.0	15.8	7.4	8.5	14.4	18.2	5.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	155.4	62.3	63.4	87.6	67.8	455.5	186.5	62.9	30.6	132.5	143.6	20.7
LnGrp LOS	F	E	E	F	E	F	F	E	C	F	F	C
Approach Vol, veh/h		1540			1466			1235			1271	
Approach Delay, s/veh		105.6			247.5			81.1			114.1	
Approach LOS		F			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.0	46.0	22.0	30.0	51.0	37.0	25.0	27.0
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	38.0	40.6	18.0	25.0	47.0	31.6	21.0	22.0
Max Q Clear Time (g_c+I1), s	39.8	34.3	20.0	27.0	49.0	33.6	23.0	24.0
Green Ext Time (p_c), s	0.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0

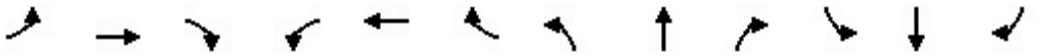
Intersection Summary	
HCM 6th Ctrl Delay	139.8
HCM 6th LOS	F



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	1218	53	165	958	18	98	3	290	11	1	48
Future Volume (veh/h)	82	1218	53	165	958	18	98	3	290	11	1	48
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	0.99		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1885	1900	1885	1885	1870	1856	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	89	1324	58	179	1041	20	107	3	315	12	1	52
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	1	0	1	1	2	3	2	2	2	2	2
Cap, veh/h	114	1550	68	219	1803	35	446	11	396	99	37	310
Arrive On Green	0.06	0.44	0.44	0.12	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1781	3494	153	1795	3595	69	1369	44	1561	159	147	1222
Grp Volume(v), veh/h	89	678	704	179	519	542	110	0	315	65	0	0
Grp Sat Flow(s),veh/h/ln	1781	1791	1855	1795	1791	1873	1413	0	1561	1527	0	0
Q Serve(g_s), s	3.5	24.4	24.5	7.0	14.6	14.6	1.7	0.0	13.6	0.0	0.0	0.0
Cycle Q Clear(g_c), s	3.5	24.4	24.5	7.0	14.6	14.6	4.0	0.0	13.6	2.2	0.0	0.0
Prop In Lane	1.00		0.08	1.00		0.04	0.97		1.00	0.18		0.80
Lane Grp Cap(c), veh/h	114	795	823	219	898	939	457	0	396	447	0	0
V/C Ratio(X)	0.78	0.85	0.86	0.82	0.58	0.58	0.24	0.00	0.79	0.15	0.00	0.00
Avail Cap(c_a), veh/h	151	944	978	309	1100	1151	614	0	576	451	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	33.2	17.9	18.0	30.9	12.6	12.6	21.4	0.0	25.1	20.9	0.0	0.0
Incr Delay (d2), s/veh	12.3	6.3	6.2	7.7	0.4	0.4	0.3	0.0	5.5	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	9.7	10.0	3.3	5.1	5.4	1.4	0.0	5.3	0.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.5	24.3	24.2	38.5	13.0	13.0	21.8	0.0	30.6	21.0	0.0	0.0
LnGrp LOS	D	C	C	D	B	B	C	A	C	C	A	A
Approach Vol, veh/h		1471			1240			425			65	
Approach Delay, s/veh		25.5			16.7			28.3			21.0	
Approach LOS		C			B			C			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.8	37.0		22.3	8.6	41.2		22.3				
Change Period (Y+Rc), s	4.0	5.0		4.0	4.0	5.0		4.0				
Max Green Setting (Gmax), s	12.4	38.0		18.5	6.1	44.3		26.6				
Max Q Clear Time (g_c+I1), s	9.0	26.5		4.2	5.5	16.6		15.6				
Green Ext Time (p_c), s	0.0	5.5		0.2	0.0	6.1		1.6				

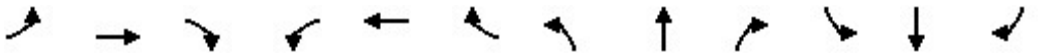
Intersection Summary			
HCM 6th Ctrl Delay		22.4	
HCM 6th LOS		C	



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	309	733	331	161	505	113	241	532	158	128	578	202
Future Volume (veh/h)	309	733	331	161	505	113	241	532	158	128	578	202
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.97	1.00		0.98	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1885	1870	1870	1900	1900	1870	1885	1870	1856	1885	1870
Adj Flow Rate, veh/h	332	788	356	173	543	122	259	572	170	138	622	217
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	1	2	2	0	0	2	1	2	3	1	2
Cap, veh/h	360	723	592	163	787	176	238	720	213	164	582	203
Arrive On Green	0.21	0.38	0.38	0.09	0.27	0.27	0.13	0.27	0.27	0.09	0.22	0.22
Sat Flow, veh/h	1753	1885	1544	1781	2919	653	1781	2713	804	1767	2587	901
Grp Volume(v), veh/h	332	788	356	173	335	330	259	377	365	138	430	409
Grp Sat Flow(s),veh/h/ln	1753	1885	1544	1781	1805	1768	1781	1791	1726	1767	1791	1697
Q Serve(g_s), s	22.3	46.0	22.2	11.0	20.0	20.1	16.0	23.5	23.6	9.2	27.0	27.0
Cycle Q Clear(g_c), s	22.3	46.0	22.2	11.0	20.0	20.1	16.0	23.5	23.6	9.2	27.0	27.0
Prop In Lane	1.00		1.00	1.00		0.37	1.00		0.47	1.00		0.53
Lane Grp Cap(c), veh/h	360	723	592	163	487	476	238	476	458	164	403	382
V/C Ratio(X)	0.92	1.09	0.60	1.06	0.69	0.69	1.09	0.79	0.80	0.84	1.07	1.07
Avail Cap(c_a), veh/h	409	723	592	163	487	476	238	476	458	177	403	382
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.7	37.0	29.7	54.5	39.3	39.4	52.0	41.0	41.0	53.6	46.5	46.5
Incr Delay (d2), s/veh	24.5	60.8	1.7	87.1	4.1	4.3	84.7	9.4	10.0	27.6	64.1	65.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.0	32.6	8.3	8.8	9.3	9.2	12.6	11.4	11.2	5.3	18.9	18.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.2	97.8	31.4	141.6	43.4	43.7	136.7	50.4	51.0	81.2	110.6	112.4
LnGrp LOS	E	F	C	F	D	D	F	D	D	F	F	F
Approach Vol, veh/h		1476			838			1001			977	
Approach Delay, s/veh		75.8			63.8			72.9			107.2	
Approach LOS		E			E			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.1	36.9	16.0	51.0	21.0	32.0	29.7	37.3
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	12.0	31.0	11.0	46.0	16.0	27.0	28.0	29.0
Max Q Clear Time (g_c+I1), s	11.2	25.6	13.0	48.0	18.0	29.0	24.3	22.1
Green Ext Time (p_c), s	0.0	2.6	0.0	0.0	0.0	0.0	0.4	2.2

Intersection Summary	
HCM 6th Ctrl Delay	79.9
HCM 6th LOS	E

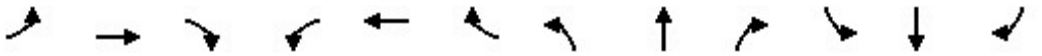


Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	245	131	56	214	73	123	44	777	197	124	829	77
Future Volume (veh/h)	245	131	56	214	73	123	44	777	197	124	829	77
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.97	1.00		0.96
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1856	1885	1900	1900	1885	1885	1900	1900	1900
Adj Flow Rate, veh/h	266	142	61	233	79	134	48	845	214	135	901	84
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	3	1	0	0	1	1	0	0	0
Cap, veh/h	309	200	86	275	271	228	60	1042	264	170	1432	134
Arrive On Green	0.17	0.16	0.16	0.16	0.14	0.14	0.03	0.37	0.37	0.09	0.43	0.43
Sat Flow, veh/h	1810	1260	541	1767	1885	1587	1810	2813	712	1810	3324	310
Grp Volume(v), veh/h	266	0	203	233	79	134	48	538	521	135	489	496
Grp Sat Flow(s),veh/h/ln	1810	0	1801	1767	1885	1587	1810	1791	1734	1810	1805	1828
Q Serve(g_s), s	10.3	0.0	7.7	9.3	2.7	5.7	1.9	19.6	19.6	5.3	15.3	15.3
Cycle Q Clear(g_c), s	10.3	0.0	7.7	9.3	2.7	5.7	1.9	19.6	19.6	5.3	15.3	15.3
Prop In Lane	1.00		0.30	1.00		1.00	1.00		0.41	1.00		0.17
Lane Grp Cap(c), veh/h	309	0	287	275	271	228	60	663	642	170	778	788
V/C Ratio(X)	0.86	0.00	0.71	0.85	0.29	0.59	0.79	0.81	0.81	0.79	0.63	0.63
Avail Cap(c_a), veh/h	350	0	573	317	573	482	100	742	719	200	848	859
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.2	0.0	28.8	29.7	27.7	29.0	34.7	20.5	20.5	32.1	16.1	16.1
Incr Delay (d2), s/veh	16.0	0.0	3.2	15.3	0.6	2.4	8.4	6.7	6.9	14.1	1.6	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	0.0	3.5	5.0	1.2	0.2	0.9	8.6	8.3	2.8	5.8	5.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.2	0.0	32.1	45.0	28.3	31.4	43.2	27.2	27.4	46.2	17.7	17.7
LnGrp LOS	D	A	C	D	C	C	D	C	C	D	B	B
Approach Vol, veh/h		469			446			1107			1120	
Approach Delay, s/veh		39.5			38.0			28.0			21.1	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.8	30.8	15.2	15.5	6.4	35.2	16.4	14.4
Change Period (Y+Rc), s	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
Max Green Setting (Gmax), s	8.0	30.0	13.0	23.0	4.0	34.0	14.0	22.0
Max Q Clear Time (g_c+I1), s	7.3	21.6	11.3	9.7	3.9	17.3	12.3	7.7
Green Ext Time (p_c), s	0.0	5.2	0.1	0.9	0.0	7.6	0.1	0.7

Intersection Summary	
HCM 6th Ctrl Delay	28.7
HCM 6th LOS	C

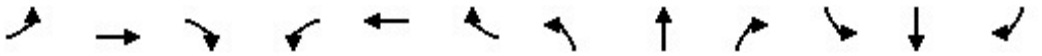
CUMULATIVE PLUS PROJECT IMPROVEMENTS



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	247	321	104	450	824	331	309	463	421	330	484	517
Future Volume (veh/h)	247	321	104	450	824	331	309	463	421	330	484	517
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	260	338	109	474	867	348	325	487	443	347	509	544
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	339	697	221	481	1088	619	304	1346	637	301	929	569
Arrive On Green	0.10	0.27	0.27	0.14	0.31	0.31	0.09	0.27	0.27	0.09	0.27	0.27
Sat Flow, veh/h	3401	2603	825	3428	3526	1552	3401	5025	1560	3374	3469	1547
Grp Volume(v), veh/h	260	225	222	474	867	348	325	487	443	347	509	544
Grp Sat Flow(s),veh/h/ln	1700	1749	1680	1714	1763	1552	1700	1675	1560	1687	1735	1547
Q Serve(g_s), s	5.8	8.5	8.7	10.8	17.7	13.6	7.0	6.2	18.4	7.0	9.9	21.0
Cycle Q Clear(g_c), s	5.8	8.5	8.7	10.8	17.7	13.6	7.0	6.2	18.4	7.0	9.9	21.0
Prop In Lane	1.00		0.49	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	339	468	450	481	1088	619	304	1346	637	301	929	569
V/C Ratio(X)	0.77	0.48	0.49	0.99	0.80	0.56	1.07	0.36	0.70	1.15	0.55	0.96
Avail Cap(c_a), veh/h	347	504	484	481	1151	647	304	1346	637	301	929	569
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.4	24.1	24.2	33.6	24.9	18.3	35.7	23.3	19.2	35.7	24.6	24.2
Incr Delay (d2), s/veh	8.7	1.6	1.8	37.1	4.6	1.9	71.6	0.4	4.2	99.6	1.2	27.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.7	3.4	3.4	6.6	7.3	4.7	5.8	2.3	6.7	6.9	3.9	13.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.1	25.7	26.0	70.7	29.4	20.2	107.3	23.6	23.4	135.3	25.8	51.7
LnGrp LOS	D	C	C	E	C	C	F	C	C	F	C	D
Approach Vol, veh/h		707			1689			1255			1400	
Approach Delay, s/veh		32.2			39.1			45.2			63.0	
Approach LOS		C			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	26.4	11.0	26.0	11.8	29.6	11.0	26.0
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	11.0	22.6	7.0	21.0	8.0	25.6	7.0	21.0
Max Q Clear Time (g_c+I1), s	12.8	10.7	9.0	23.0	7.8	19.7	9.0	20.4
Green Ext Time (p_c), s	0.0	3.3	0.0	0.0	0.0	4.5	0.0	0.4

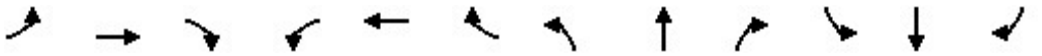
Intersection Summary	
HCM 6th Ctrl Delay	46.3
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	401	421	170	120	613	124	207	506	152	120	479	511
Future Volume (veh/h)	401	421	170	120	613	124	207	506	152	120	479	511
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1900	1870	1856	1885	1841	1870	1856	1841	1870	1870
Adj Flow Rate, veh/h	436	458	185	130	666	135	225	550	165	130	521	555
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	0	2	3	1	4	2	3	4	2	2
Cap, veh/h	447	563	627	162	766	155	307	753	225	161	1004	644
Arrive On Green	0.13	0.30	0.30	0.09	0.26	0.26	0.09	0.28	0.28	0.09	0.28	0.28
Sat Flow, veh/h	3456	1870	1601	1781	2920	591	3401	2680	801	1753	3554	1553
Grp Volume(v), veh/h	436	458	185	130	402	399	225	364	351	130	521	555
Grp Sat Flow(s),veh/h/ln	1728	1870	1601	1781	1763	1748	1700	1777	1704	1753	1777	1553
Q Serve(g_s), s	10.7	19.3	6.8	6.1	18.5	18.5	5.5	15.7	15.9	6.2	10.5	24.0
Cycle Q Clear(g_c), s	10.7	19.3	6.8	6.1	18.5	18.5	5.5	15.7	15.9	6.2	10.5	24.0
Prop In Lane	1.00		1.00	1.00		0.34	1.00		0.47	1.00		1.00
Lane Grp Cap(c), veh/h	447	563	627	162	462	459	307	499	479	161	1004	644
V/C Ratio(X)	0.97	0.81	0.29	0.80	0.87	0.87	0.73	0.73	0.73	0.81	0.52	0.86
Avail Cap(c_a), veh/h	447	594	654	168	498	494	440	544	522	186	1004	644
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.8	27.5	17.8	37.9	29.9	30.0	37.6	27.6	27.7	37.8	25.6	22.9
Incr Delay (d2), s/veh	35.8	8.1	0.3	23.4	14.5	14.7	3.6	5.1	5.4	19.9	0.6	11.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	9.4	2.4	3.6	9.3	9.3	2.4	7.0	6.9	3.4	4.2	11.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	72.7	35.6	18.0	61.3	44.4	44.7	41.3	32.7	33.1	57.8	26.3	34.7
LnGrp LOS	E	D	B	E	D	D	D	C	C	E	C	C
Approach Vol, veh/h		1079			931			940			1206	
Approach Delay, s/veh		47.6			46.9			34.9			33.5	
Approach LOS		D			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	28.9	12.7	30.6	12.7	29.0	16.0	27.3
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	9.0	26.0	8.0	27.0	11.0	24.0	11.0	24.0
Max Q Clear Time (g_c+I1), s	8.2	17.9	8.1	21.3	7.5	26.0	12.7	20.5
Green Ext Time (p_c), s	0.0	3.5	0.0	1.7	0.2	0.0	0.0	1.6

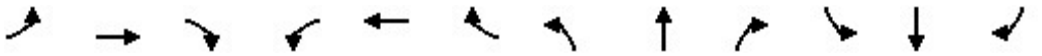
Intersection Summary	
HCM 6th Ctrl Delay	40.5
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	675	546	241	454	316	622	257	591	325	263	678	266
Future Volume (veh/h)	675	546	241	454	316	622	257	591	325	263	678	266
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1841	1841	1856	1856	1856	1841	1841	1841	1826	1826	1826
Adj Flow Rate, veh/h	711	575	254	478	333	655	271	622	342	277	714	280
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	4	4	4	3	3	3	4	4	4	5	5	5
Cap, veh/h	714	742	327	514	902	556	334	1249	622	342	874	715
Arrive On Green	0.21	0.32	0.32	0.15	0.26	0.26	0.10	0.25	0.25	0.10	0.25	0.25
Sat Flow, veh/h	3401	2350	1036	3428	3526	1551	3401	5025	1560	3374	3469	1547
Grp Volume(v), veh/h	711	428	401	478	333	655	271	622	342	277	714	280
Grp Sat Flow(s),veh/h/ln	1700	1749	1638	1714	1763	1551	1700	1675	1560	1687	1735	1547
Q Serve(g_s), s	20.9	22.1	22.2	13.8	7.8	25.6	7.8	10.6	16.9	8.0	19.4	11.9
Cycle Q Clear(g_c), s	20.9	22.1	22.2	13.8	7.8	25.6	7.8	10.6	16.9	8.0	19.4	11.9
Prop In Lane	1.00		0.63	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	714	552	517	514	902	556	334	1249	622	342	874	715
V/C Ratio(X)	1.00	0.77	0.78	0.93	0.37	1.18	0.81	0.50	0.55	0.81	0.82	0.39
Avail Cap(c_a), veh/h	714	552	517	514	902	556	340	1249	622	540	937	743
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	0.84	0.84	0.84	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.5	31.0	31.0	42.0	30.6	32.2	44.2	32.2	23.2	44.0	35.2	17.7
Incr Delay (d2), s/veh	32.5	10.1	10.9	20.5	1.0	94.9	12.7	0.7	1.8	2.3	6.3	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.5	10.3	9.8	7.0	3.3	27.2	3.8	4.2	6.2	3.4	8.6	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.9	41.1	41.9	62.5	31.5	127.1	56.9	32.9	25.0	46.2	41.6	18.4
LnGrp LOS	E	D	D	E	C	F	E	C	C	D	D	B
Approach Vol, veh/h		1540			1466			1235			1271	
Approach Delay, s/veh		55.5			84.3			36.0			37.5	
Approach LOS		E			F			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	37.0	13.8	30.2	25.0	31.0	14.1	29.9
Change Period (Y+Rc), s	4.0	5.4	4.0	5.0	4.0	5.4	4.0	5.0
Max Green Setting (Gmax), s	15.0	29.6	10.0	27.0	21.0	23.6	16.0	21.0
Max Q Clear Time (g_c+I1), s	15.8	24.2	9.8	21.4	22.9	27.6	10.0	18.9
Green Ext Time (p_c), s	0.0	3.3	0.0	3.8	0.0	0.0	0.1	1.5

Intersection Summary	
HCM 6th Ctrl Delay	54.6
HCM 6th LOS	D



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	309	733	331	161	505	113	241	532	158	128	578	202
Future Volume (veh/h)	309	733	331	161	505	113	241	532	158	128	578	202
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.98	1.00		0.99	1.00		0.98	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1841	1885	1870	1870	1900	1900	1870	1885	1870	1856	1885	1870
Adj Flow Rate, veh/h	332	788	356	173	543	122	259	572	170	138	622	217
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	4	1	2	2	0	0	2	1	2	3	1	2
Cap, veh/h	412	789	794	179	1163	260	320	623	185	148	791	534
Arrive On Green	0.12	0.42	0.42	0.10	0.40	0.40	0.09	0.23	0.23	0.08	0.22	0.22
Sat Flow, veh/h	3401	1885	1546	1781	2923	654	3456	2711	803	1767	3582	1548
Grp Volume(v), veh/h	332	788	356	173	334	331	259	377	365	138	622	217
Grp Sat Flow(s),veh/h/ln	1700	1885	1546	1781	1805	1772	1728	1791	1724	1767	1791	1548
Q Serve(g_s), s	11.4	49.9	17.5	11.6	16.4	16.5	8.8	24.5	24.7	9.3	19.6	12.8
Cycle Q Clear(g_c), s	11.4	49.9	17.5	11.6	16.4	16.5	8.8	24.5	24.7	9.3	19.6	12.8
Prop In Lane	1.00		1.00	1.00		0.37	1.00		0.47	1.00		1.00
Lane Grp Cap(c), veh/h	412	789	794	179	718	705	320	411	396	148	791	534
V/C Ratio(X)	0.81	1.00	0.45	0.97	0.47	0.47	0.81	0.92	0.92	0.93	0.79	0.41
Avail Cap(c_a), veh/h	997	789	794	179	718	705	405	420	404	148	791	534
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.1	34.7	18.5	53.5	26.6	26.6	53.2	44.9	44.9	54.4	43.9	30.1
Incr Delay (d2), s/veh	3.8	31.6	0.4	57.3	0.5	0.5	9.4	24.9	26.4	54.1	5.6	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	28.8	6.1	8.0	7.0	7.0	4.2	13.6	13.3	6.3	9.1	4.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	54.9	66.3	18.9	110.8	27.0	27.1	62.6	69.8	71.3	108.5	49.4	30.8
LnGrp LOS	D	E	B	F	C	C	E	E	E	F	D	C
Approach Vol, veh/h		1476			838			1001			977	
Approach Delay, s/veh		52.3			44.4			68.5			53.6	
Approach LOS		D			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	32.4	17.0	55.0	16.0	31.4	19.5	52.5
Change Period (Y+Rc), s	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Max Green Setting (Gmax), s	10.0	28.0	12.0	50.0	14.0	24.0	35.0	27.0
Max Q Clear Time (g_c+I1), s	11.3	26.7	13.6	51.9	10.8	21.6	13.4	18.5
Green Ext Time (p_c), s	0.0	0.7	0.0	0.0	0.3	1.4	1.1	2.6

Intersection Summary	
HCM 6th Ctrl Delay	54.8
HCM 6th LOS	D

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