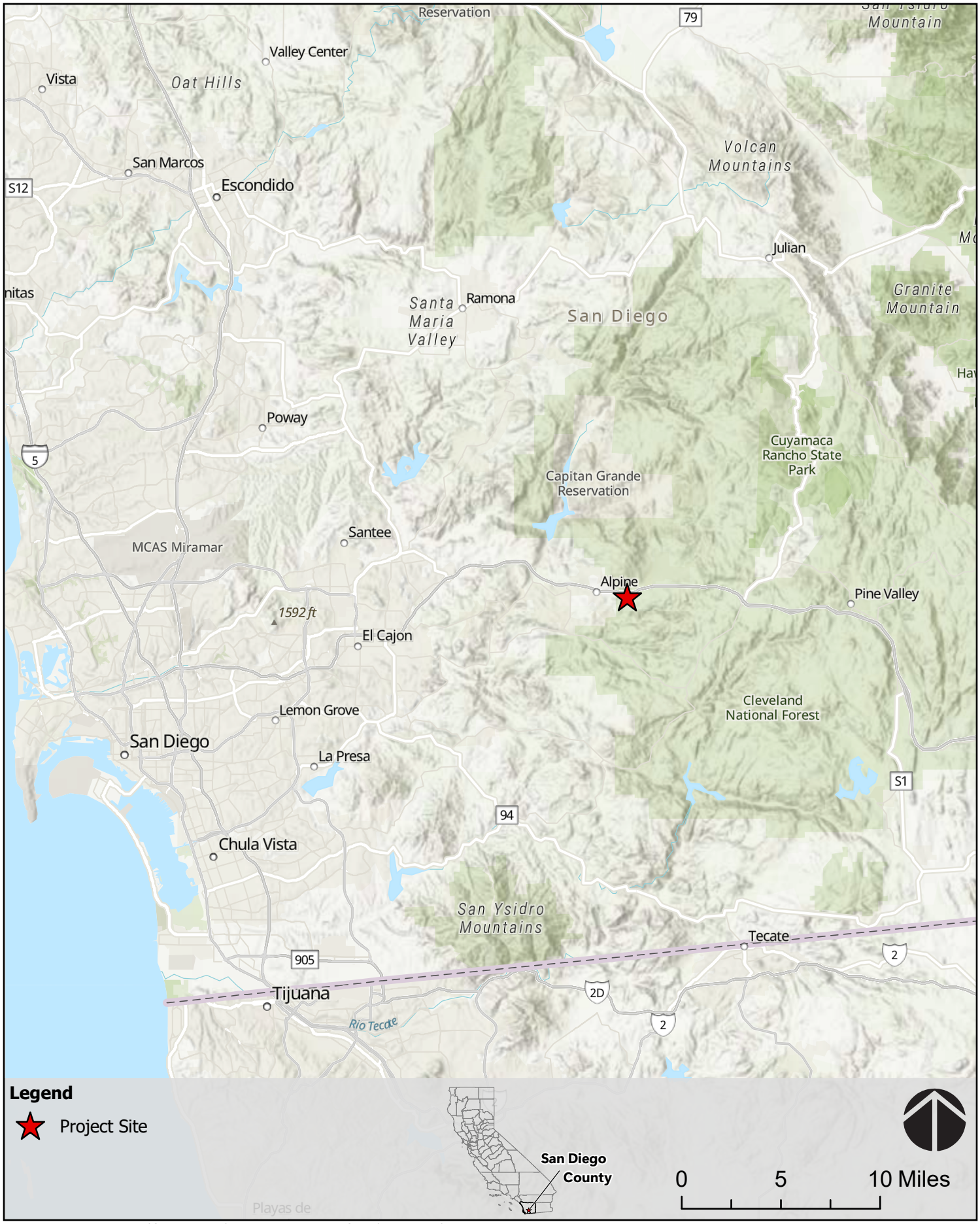
Appendix A

Figures



Esri, CGIAR, USGS, SanGIS, California State Parks, Esri, HERE, Garmin, SafeGraph, FAO, METI/ NASA, USGS, Bureau of Land Management, EPA, NPS

FIGURE 1

REGIONAL LOCATION

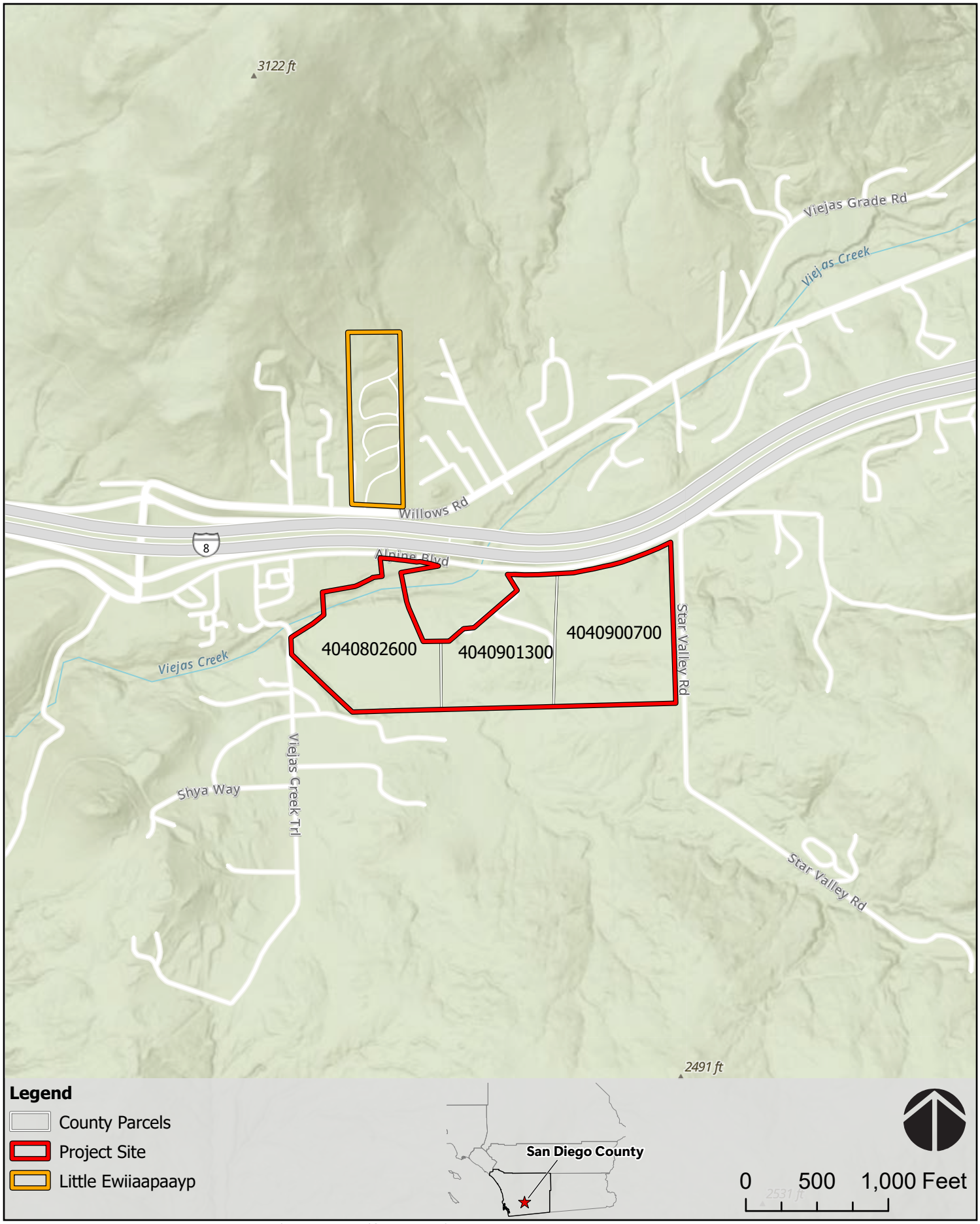


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FIGURE 2
SITE AND VICINITY



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FIGURE 3
AERIAL OVERVIEW



Source: Maxar Imagery (Feb. 2022)

FIGURE 4

PROPOSED SITE PLAN

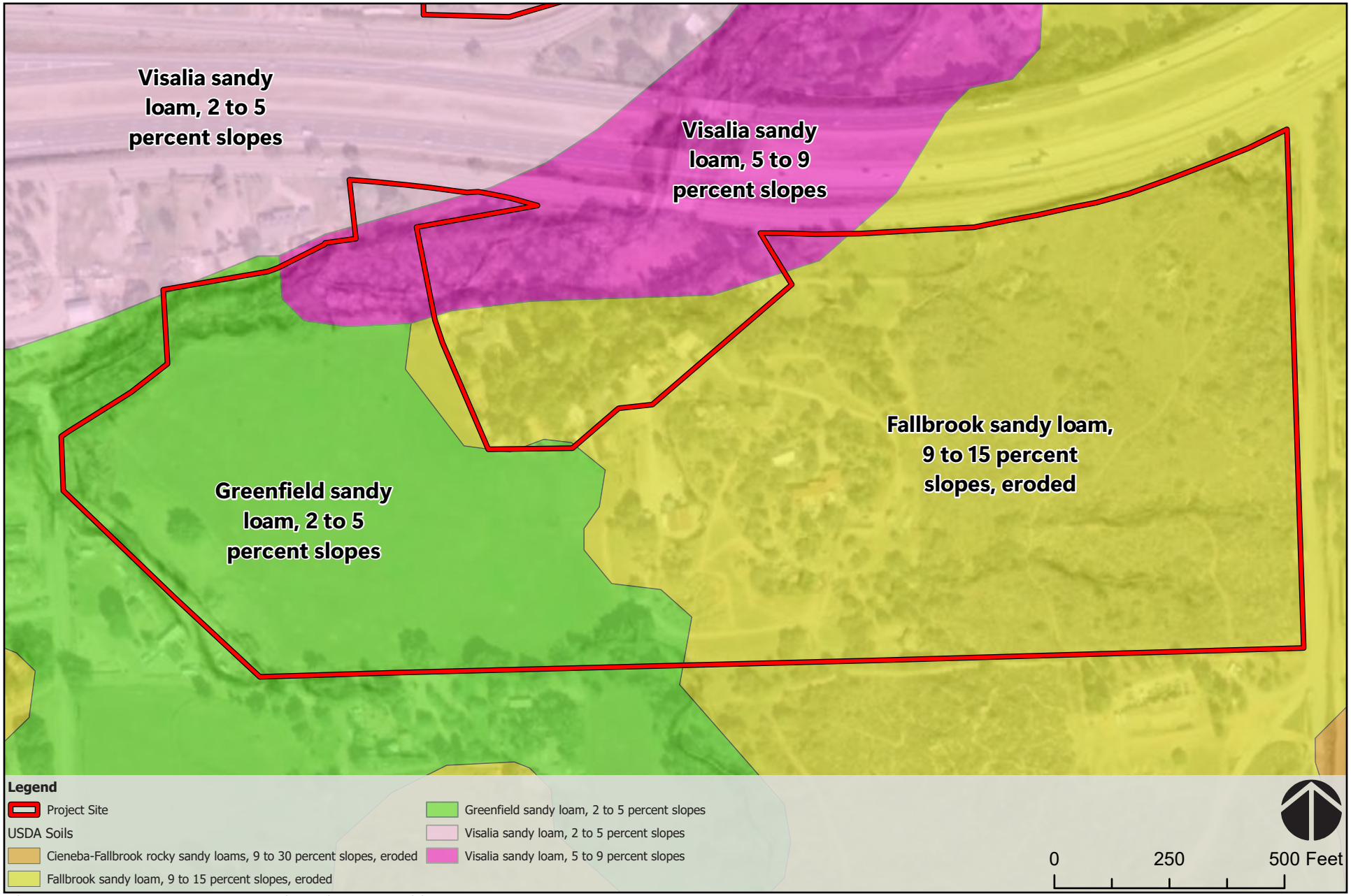

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FIGURE 5

SOIL TYPES

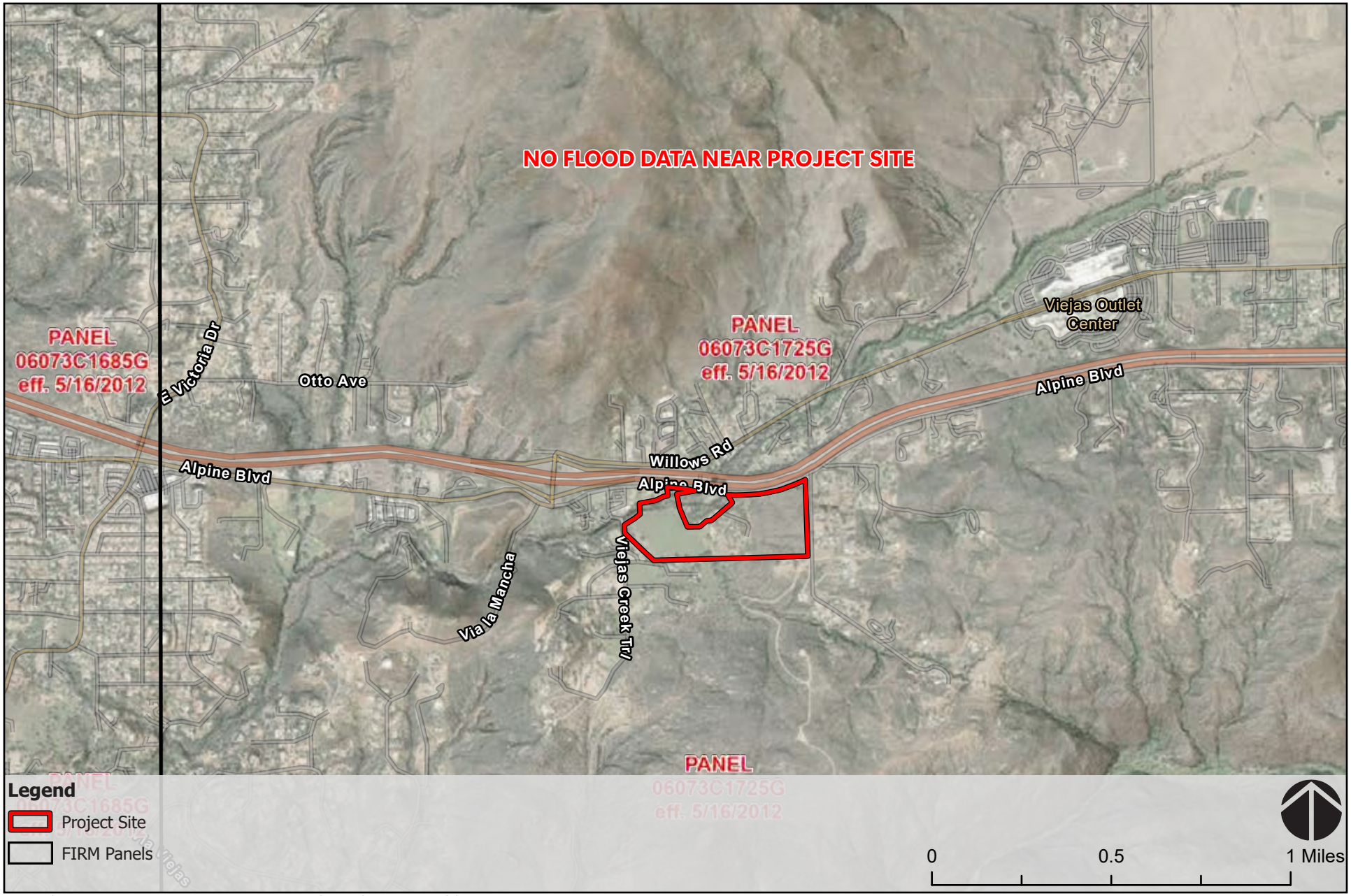

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FIGURE 6

FEMA FLOOD ZONES

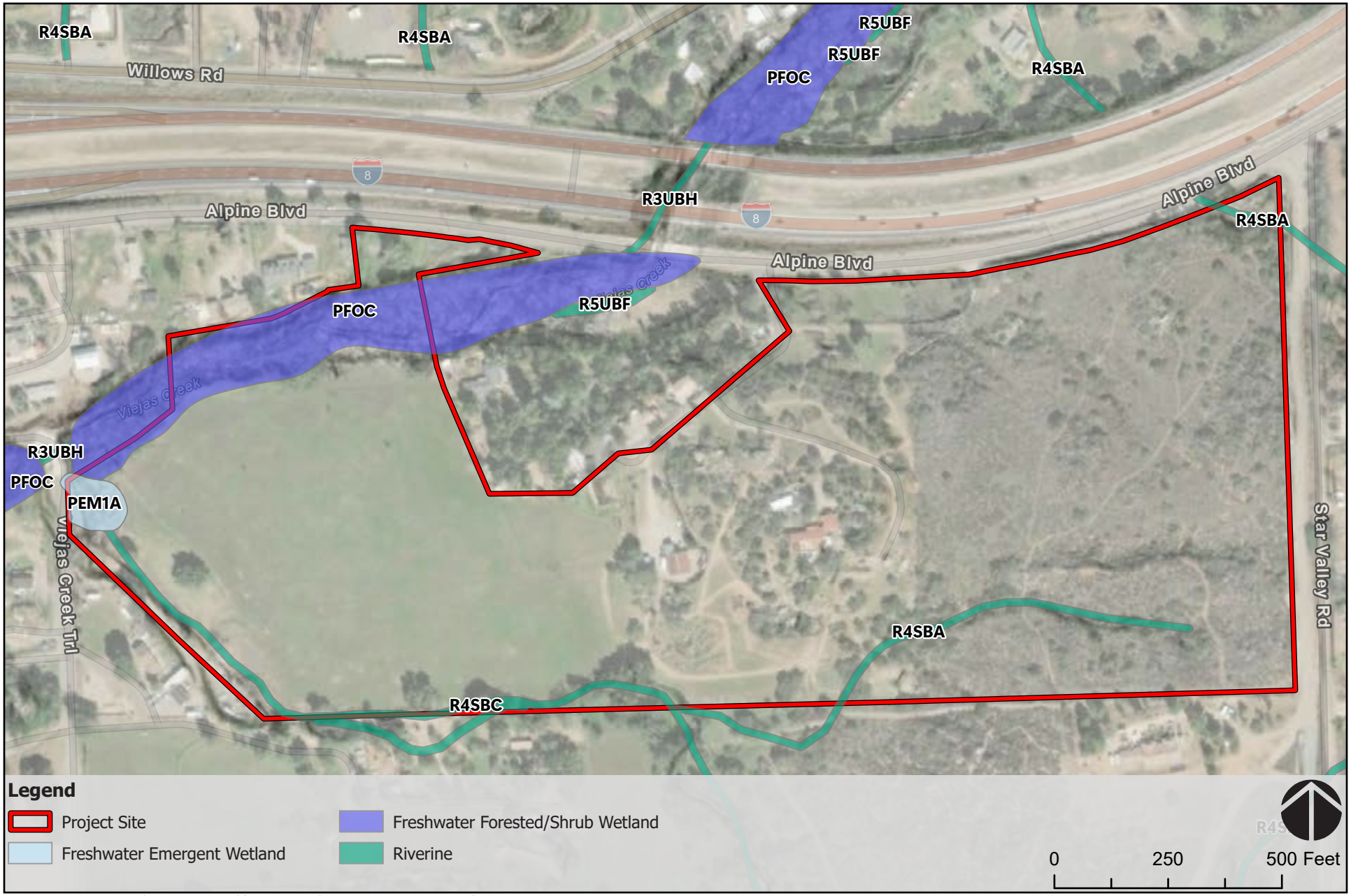

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FIGURE 7

NATIONAL WETLAND INVENTORY

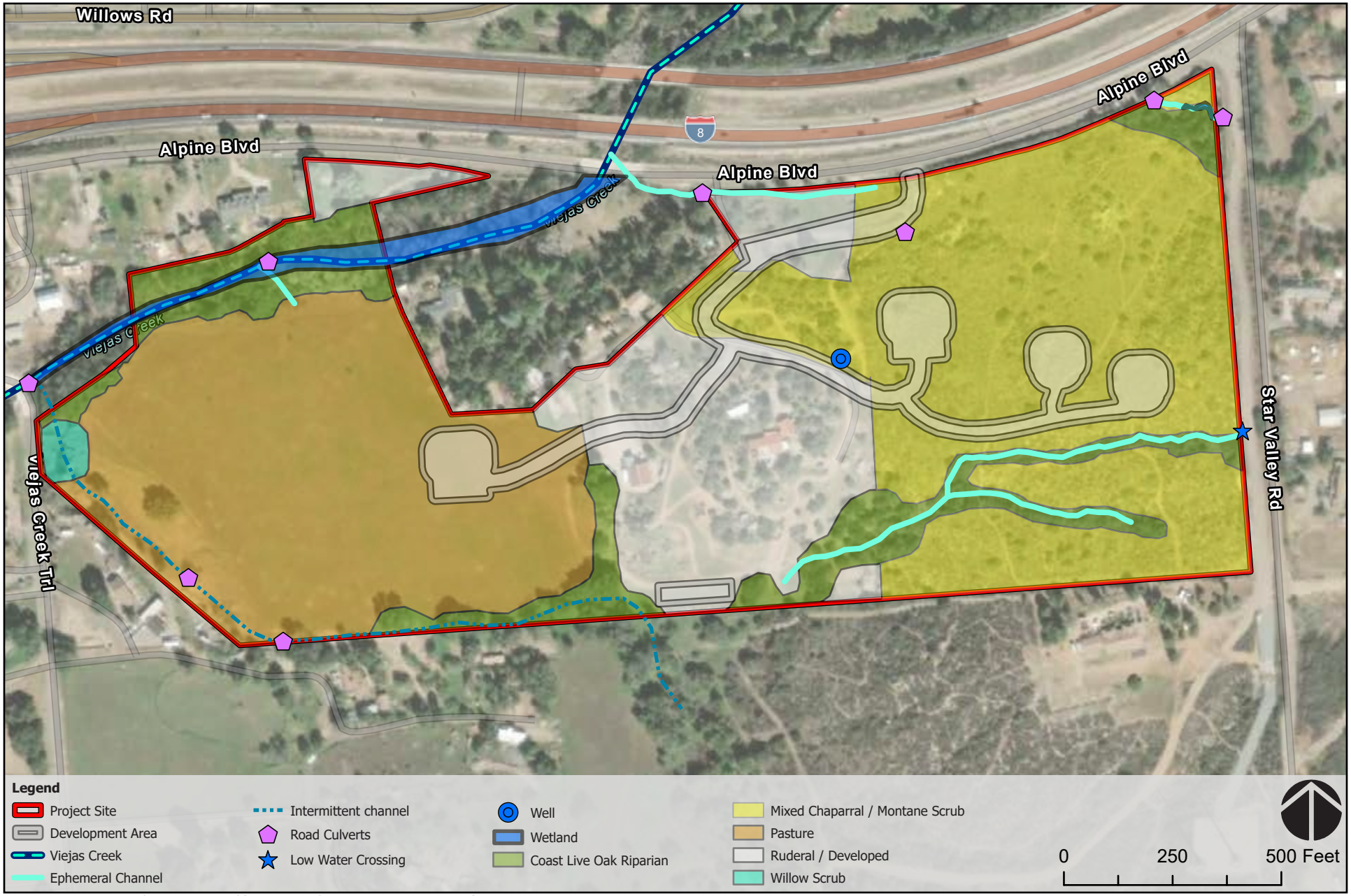

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FIGURE 8

HABITAT TYPES

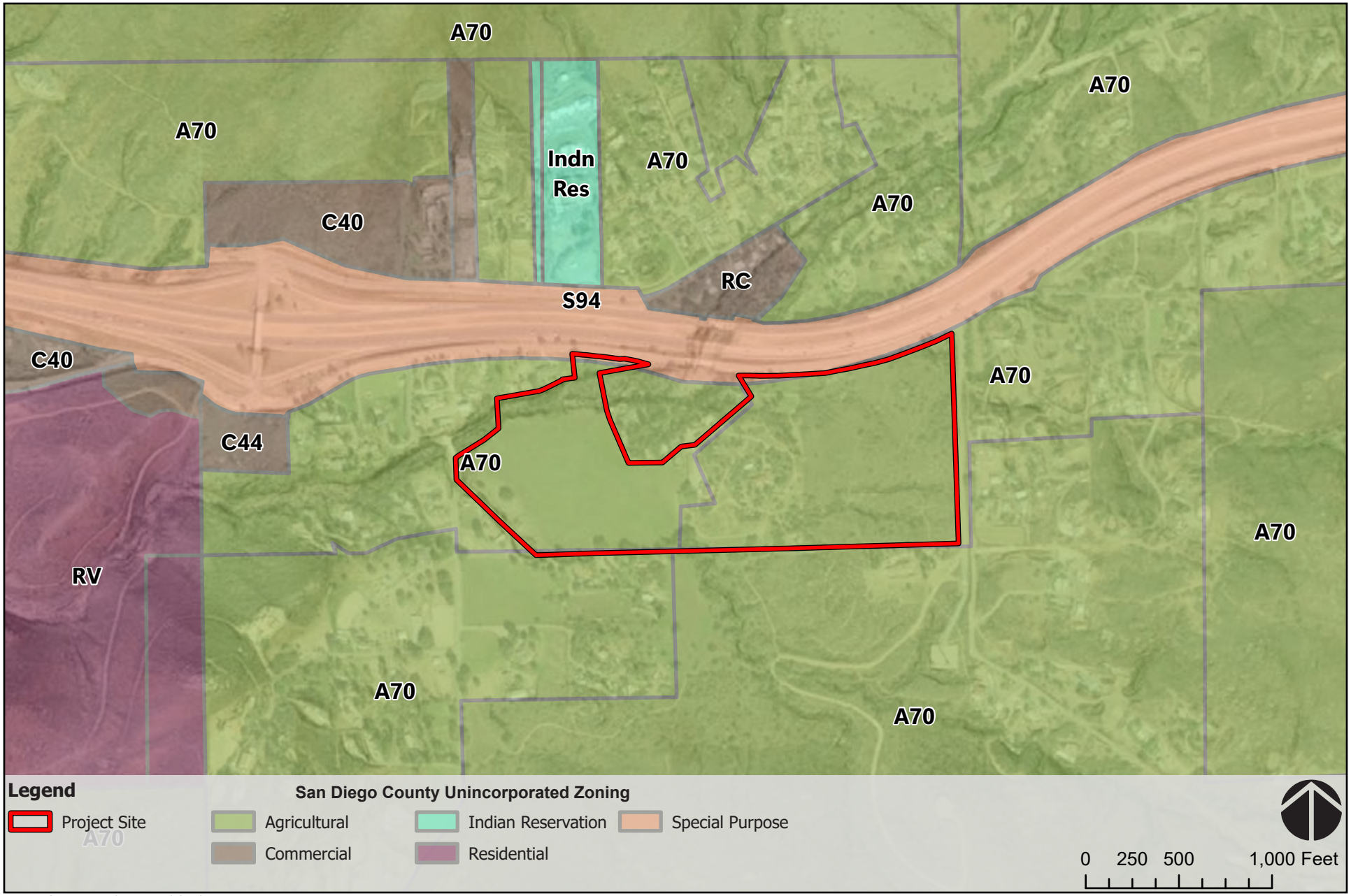

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FIGURE 9

EXISTING ZONING DESIGNATIONS

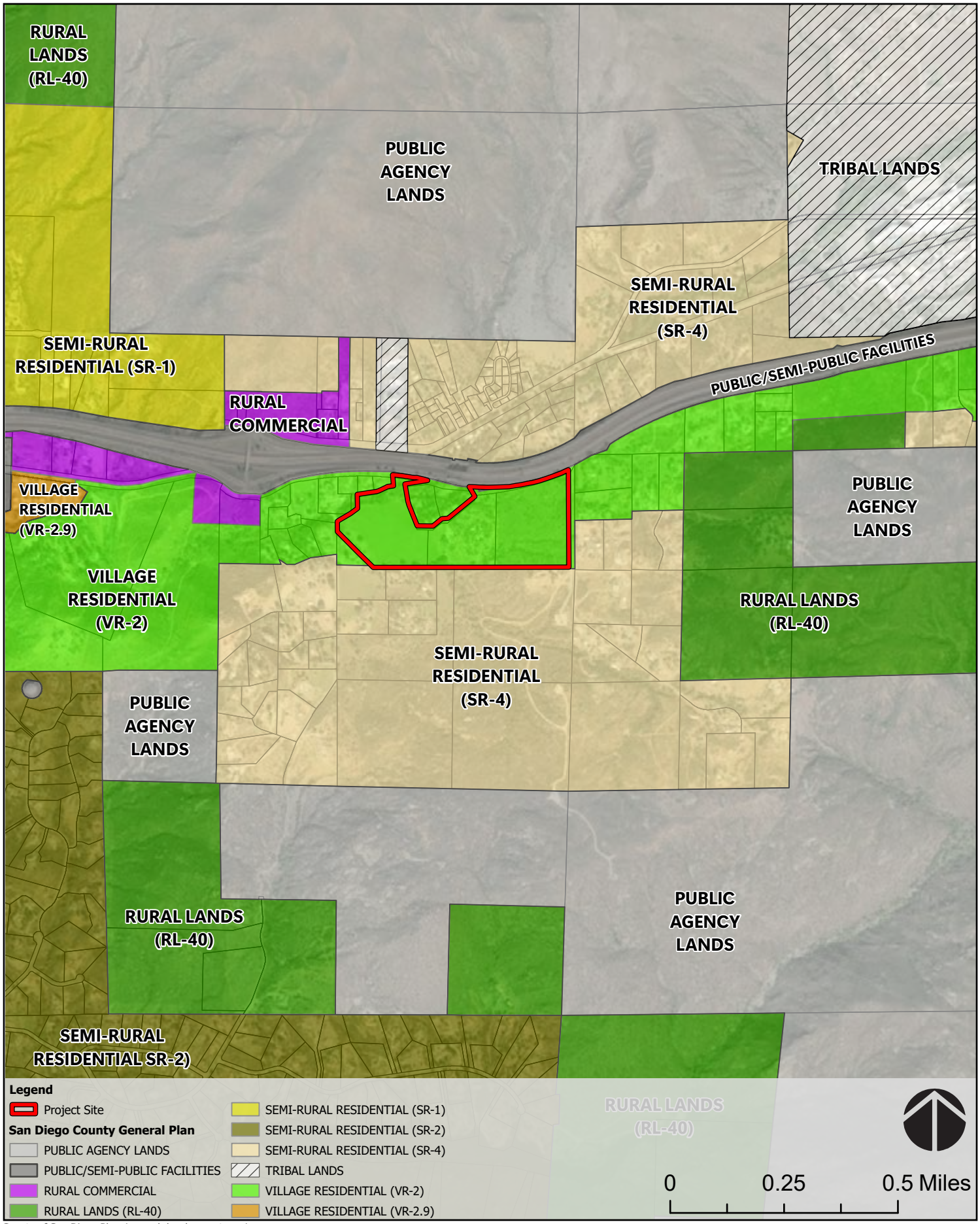

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FIGURE 10

GENERAL PLAN LAND USE DESIGNATIONS

Appendix B

Traffic Impact Study

LINSCOTT LAW & GREENSPAN engineers

LOCAL MOBILITY ANALYSIS

EWIIAAPAAYP TRIBAL FACILITIES AND HOUSING PROJECT

January 9, 2024

LLG Ref. 3-23-3824

Prepared by:

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LOCAL MOBILITY ANALYSIS

EWIIAAPAAYP TRIBAL FACILITIES AND HOUSING PROJECT

January 9, 2024

1.0 INTRODUCTION

Linscott, Law & Greenspan (LLG), Engineers has been retained to prepare a Focused Local Mobility Analysis (LMA) for the Walker / Salerno Project (hereby referred to as the "Project") located on Ewiiaapaayp tribal land near the I-8/Willows Road interchange and near the San Diego County Community of Alpine. The project proposes to construct one office building, one library / community center, two single-family dwelling units and designate an existing residence to an emergency center.

The following sections are included in this report:

- Project Description
- Analysis Scenarios, Approach and Methodology
- Intersection Analysis Criteria
- Existing Conditions Discussion
- Analysis of Existing Vehicular Conditions
- Trip Generation/Distribution/Assignment
- Assessment of Opening Year Vehicular Conditions
- Project Access Discussion
- Active Transportation Review
- Conclusions

2.0 PROJECT DESCRIPTION

2.1 Project Location

The project is located on land owned in fee by the Ewiiaapaayp Band of Kumeyaay Indians (Tribe) near the I-8/Willows Road interchange and near the San Diego County Community of Alpine. Prior to construction of the project, the land will be in the federal trust.

Figure 2–1 depicts the general vicinity of the project and ***Figure 2–2*** depicts a more detailed project area map.

2.2 Project Description

Following the acquisition of the Project Site into federal trust, the Tribe proposes to develop a 1,440 SF tribal office, a 1,440 SF library/community center, two single-family houses (720 sf each), and associated infrastructure. An existing residence on the site is currently designated as a tribal emergency center that may be used as a non-congregating shelter facility during emergency events.

The project proposes to build a new access road with full access to Alpine Boulevard, east of the I-8 / Willows Road interchange at an existing driveway on Alpine Road. As part of the Project, a stop sign will be installed on the Driveway to control northbound traffic as shown in *Figure 2-3*.

Construction is planned to begin in January 2025 with the Opening Year of 2026.

Figure 2–3 depicts the conceptual site plan for the project.

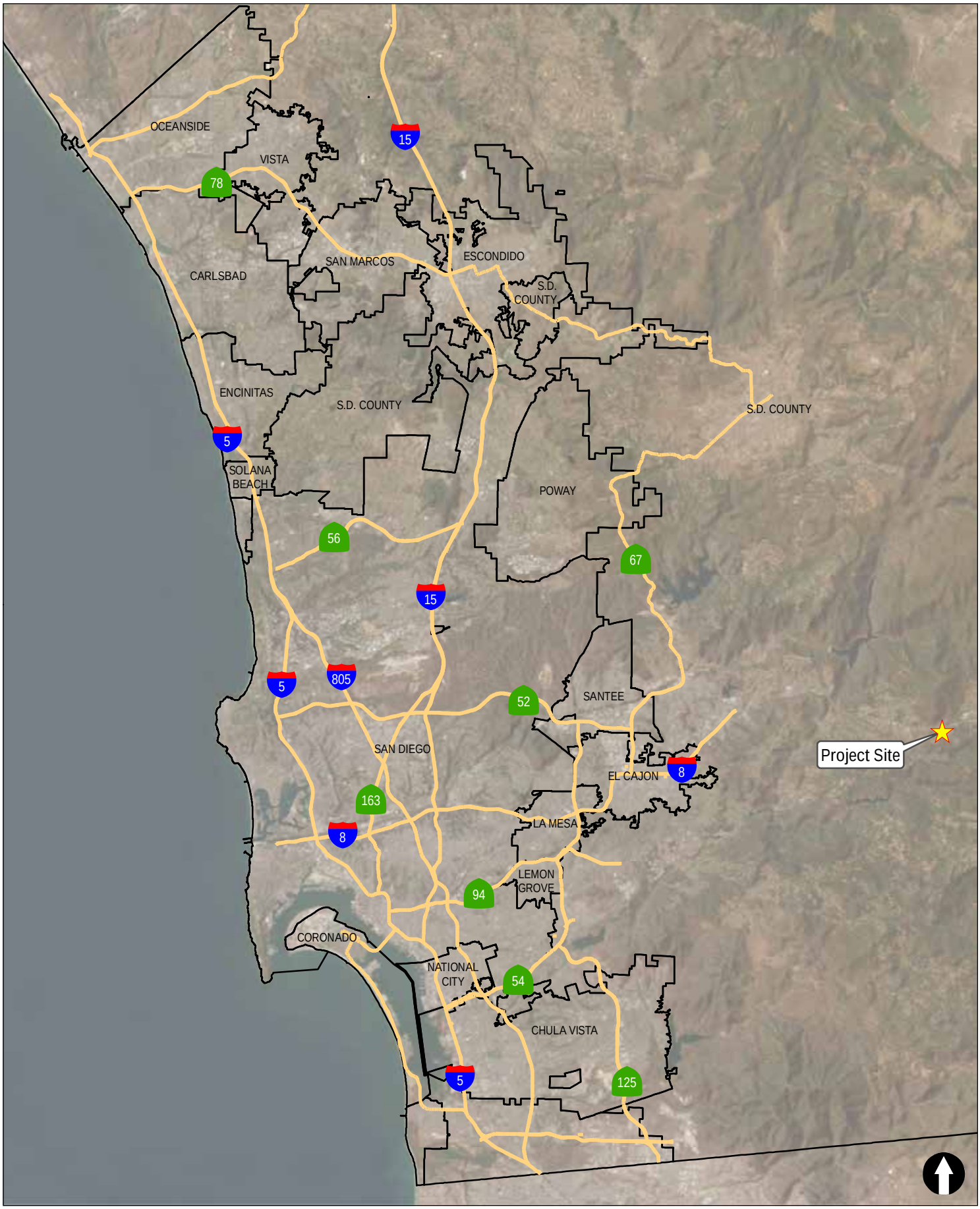

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Figure 2-1

Vicinity Map

WALKER / SALERNO

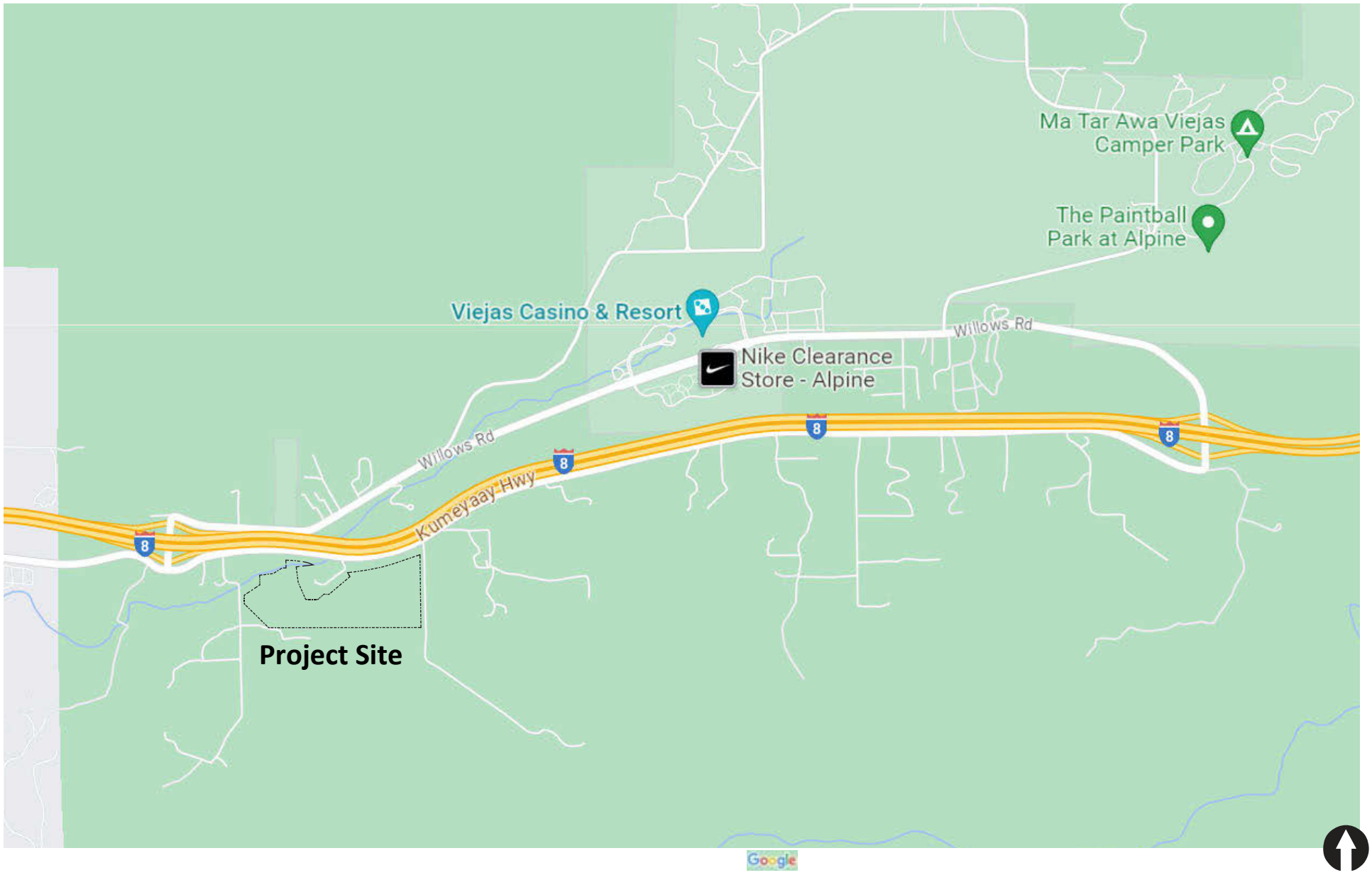

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Figure 2-2

Project Area Map

WALKER / SALERNO

3.0 PROJECT STUDY AREA, ANALYSIS SCENARIOS, APPROACH AND METHODOLOGY

3.1 Project Study Area

This focused study analyzes the following intersections based on the anticipated assignment of project traffic and locations where the majority of the Project traffic will travel.

Intersections

1. Willows Road / Interstate 8 (I-8) WB Ramps
2. Willows Road / I-8 EB Ramps
3. Willows Road / Alpine Boulevard
4. Alpine Boulevard / Project Driveway (*does not currently exist*)

3.2 Analysis Scenarios

This traffic analysis assesses the study area intersections in the following scenarios to determine the potential impacts to the roadway network:

- Existing
- Opening Year (2026) Without Project
- Opening Year (2026) + Project

3.3 Transportation Study Guidelines

For the purpose of this study, the County of San Diego *Transportation Study Guidelines (dated September 2022)* were utilized.

3.4 Analysis Methodology

There are various methodologies used to analyze unsignalized intersections. The measure of effectiveness for intersection operations is level of service (LOS), which denotes the operating conditions which occur at a given intersection under various traffic volume loads.

LOS is a qualitative measure used to describe a quantitative analysis taking into account factors such as roadway geometries, signal phasing, speed, travel delay, freedom to maneuver, and safety. Level of service provides an index to the operational qualities of an intersection. Levels of service designations range from A to F, with LOS A representing the best operating conditions and LOS F representing the worst.

Level of service designation is reported differently for signalized and unsignalized intersections. In the 6th edition of the Highway Capacity Manual (HCM), Level of Service for signalized intersections is defined in terms of delay. The level of service analysis results in seconds of delay expressed in terms of letters A through F. Delay is a measure of driver discomfort, frustration, fuel consumption, and lost travel time.

3.5 Unsignalized Intersections

Table 4–1 summarizes the unsignalized intersections levels of service descriptions. ***Table 4–2*** depicts the intersection LOS and corresponding delay ranges, which are based on the average control delay for any particular minor movement of an unsignalized intersection. LOS relative to unsignalized intersection is further described below.

For unsignalized intersections, level of service is determined by the computed or measured control delay and is defined for each minor movement: level of service is not defined for the intersection as a whole. Level of Service F exists when there are insufficient gaps of suitable size to allow a side street demand to safely cross through a major street traffic stream. This level of service is generally evident from extremely long control delays experienced by side-street traffic and by queuing on the minor-street approaches. The method, however, is based on a constant critical gap size; that is, the critical gap remains constant no matter how long the side-street motorist waits. LOS F may also appear in the form of side-street vehicles selecting smaller-than-usual gaps. In such cases, safety may be a problem, and some disruption to the major traffic stream may result. It is important to note that LOS F may not always result in long queues but may result in adjustments to normal gap acceptance behavior, which are more difficult to observe in the field than queuing.

TABLE 4–1
INTERSECTION LEVEL OF SERVICE DESCRIPTIONS

Level of Service	Description
A	Occurs when progression is extremely favorable and most vehicles arrive during the green phase. Most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
B	Generally occurs with good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
C	Generally results when there is fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear in this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
D	Generally results in noticeable congestion. Longer delays may result from some combination of unfavorable progression, long cycle lengths, or high volume-to-capacity ratios. Many vehicles stop, and the proportion of vehicles not stopping declines. Individual cycle failures are noticeable.
E	Considered to be the limit of acceptable delay. These high delay values generally indicate poor progression, long cycle lengths, and high volume-to-capacity ratios. Individual cycle failures are frequent occurrences.
F	Considered to be unacceptable to most drivers. This condition often occurs with over saturation i.e. when arrival flow rates exceed the capacity of the intersection. It may also occur at high volume-to-capacity ratios below 1.00 with many individual cycle failures. Poor progression and long cycle lengths may also be major contributing causes to such delay levels

TABLE 4–2
UNSIGNALIZED INTERSECTION LOS & DELAY RANGES

LOS	Delay (seconds/vehicle)
A	≤ 10.0
B	10.1 to 15.0
C	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F	≥ 50.1

Source: Highway Capacity Manual, 6th Edition.

4.0 SUBSTANTIAL EFFECT CRITERIA

The following significance effect criteria is assumed for the purpose of this report:

All intersections in the Project study area are unsignalized. Hence the following includes substantial effect criteria for unsignalized intersections only. Per Section 4.5.2 Unsignalized Intersections Methodology of the County of San Diego *Guidelines*, an improvement is required at an unsignalized intersection if any of the following are triggered:

- The project causes the average intersection delay to be LOS E or F during the peak hour.
- The project adds 5.0 or more seconds of delay to an intersection that is currently operating at LOS E or F during the peak hour.
- The intersection meets the peak hour traffic signal warrants after the addition of project traffic per the California Manual on Uniform Traffic Control Devices (CA MUTCD–latest edition). An investigation of the need for a traffic control signal may also include an analysis of factors related to the existing operations and safety at a study intersection and the potential to improve these conditions. A warrant analysis is not required for right turn in/right turn out only intersections or driveways that are physically restricted by raised center median.

5.0 EXISTING CONDITIONS

5.1 Existing Transportation Conditions

Following is a description of the street network in the Study Area:

WILLOWS ROAD

Willows Road is an east/west roadway to the north of I-8 and is classified in the County of San Diego Mobility Element as a 2.2E Light Collector north of the I-8 westbound ramps and as a 4.1A Major Road with a raised median between the I-8 westbound ramps and Alpine Boulevard. Currently, it is constructed as a 2-lane undivided roadway with one lane in each direction. A pavement width of 24 feet is provided along with 8-foot-wide paved shoulders/bike lane/buffer. Curbside parking is prohibited. The posted speed limit is 45 mph.

ALPINE BOULEVARD

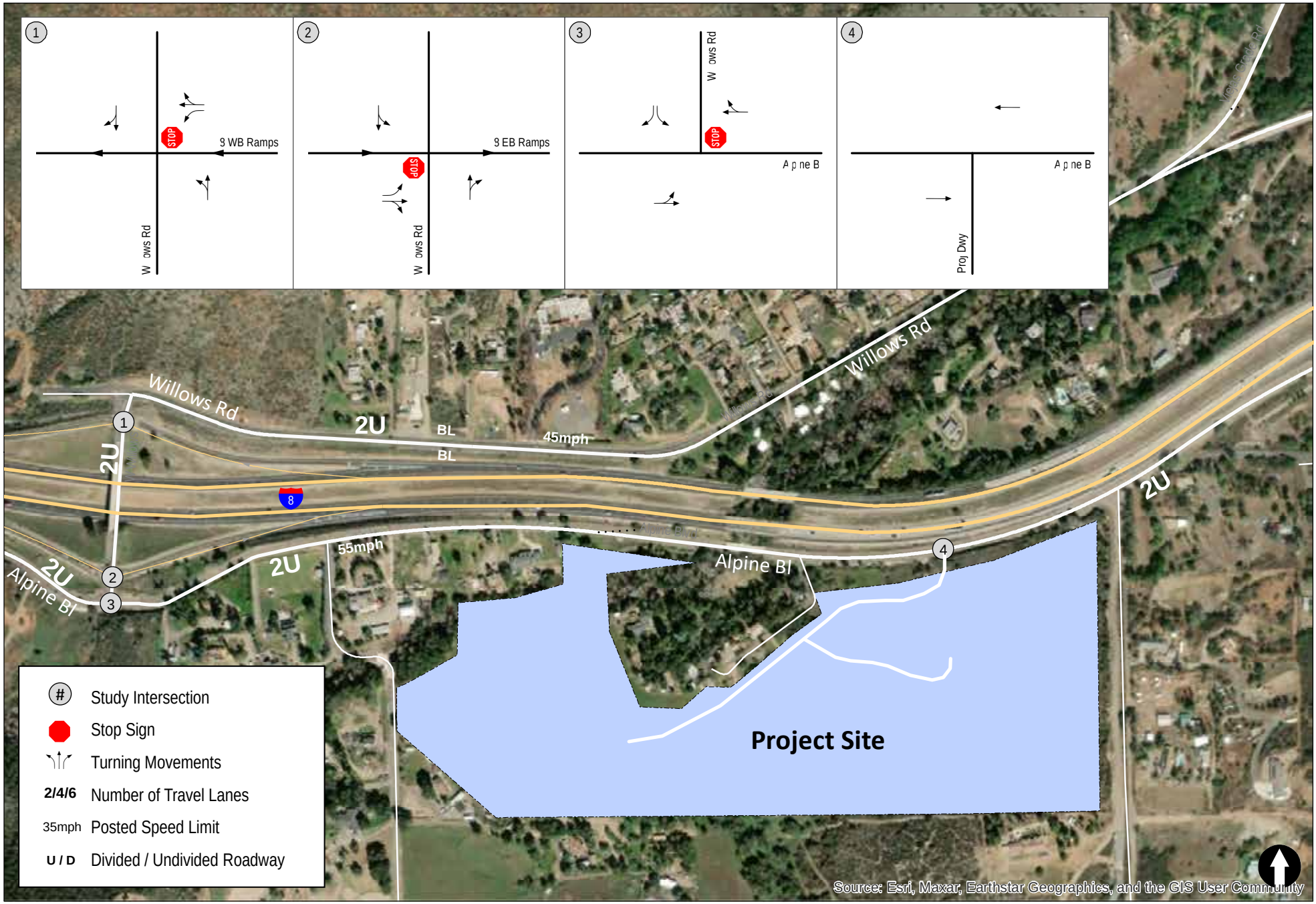
Alpine Boulevard is an east/west roadway to the south of I-8 which is a part of Historic U.S. Route 80 and is classified in the County of San Diego Mobility Element as a 2.1D Community Collector west of West Willows Road and as a 2.1C Community Collector east of Willows Road. Currently, it is constructed as a 2-lane undivided roadway with one lane in each direction. A pavement width of 24-feet is provided along with 6 to 8-foot-wide paved shoulders. Curbside parking is prohibited. The posted speed limit is 55 mph.

Figure 5–1 depicts the existing traffic conditions and the study area intersections graphically.

5.2 Existing Traffic Volumes

Existing weekday AM and PM peak hour (7:00-9:00 AM and 4:00-6:00 PM) traffic volume counts were commissioned at the study area intersections on September 19, 2023, when area schools were in session.

Figure 5–2 depicts the peak hour intersection turning movement volumes at the study area intersections. ***Appendix A*** contains copies of the intersection count sheets.



LINSCOTT LAW & GREENSPAN engineers

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Figure 5-1

Existing Conditions Diagram

WALKER / SALERNO

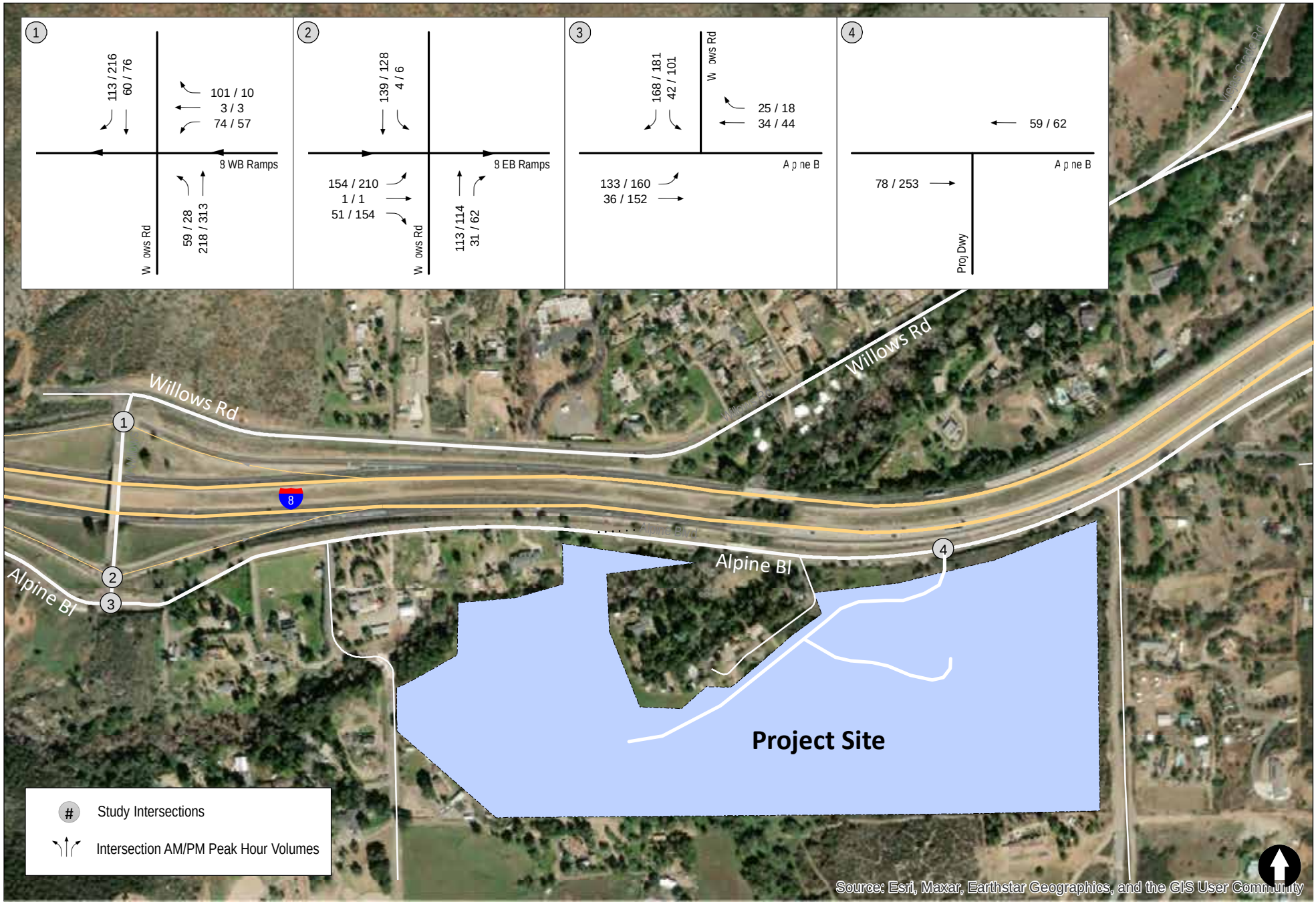

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Figure 5-2

Existing Traffic Volumes

WALKER / SALERNO

6.0 ANALYSIS OF EXISTING VEHICULAR CONDITIONS

Table 6-1 summarizes the delay and levels of service at the study area intersections. As seen in *Table 6-1,* the minor street approaches are calculated to currently operate at LOS C or better.

Appendix B contains the existing peak hour intersection analysis worksheets.

TABLE 6–1
EXISTING INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Delay [a]	LOS [b]
1. W. Willows Rd / I-8 WB Ramps	MSSC [c]	AM	15.2	C
		PM	16.2	C
2. W. Willows Rd / I-8 EB Ramps	MSSC [c]	AM	13.3	B
		PM	14.1	B
3. W. Willows Rd / Alpine Blvd	MSSC [d]	AM	9.4	A
		PM	10.7	B
4. Project Dwy / Alpine Blvd	DNE	AM	DNE	DNE
		PM	DNE	DNE

Footnotes:

a. Average delay expressed in seconds per vehicle.
b. Level of Service.
c. MSSC – Minor Street Stop controlled intersection. Minor street delays are reported.
d. Analyzed as a Two-Way Stop controlled intersection (WB and EB as stop control). Only WB delay is reported.

General Notes:

DNE – Does not exist.

UNSIGNALIZED

Delay	LOS
0.0 ≤ 10.0	A
10.1 to 15.0	B
15.1 to 25.0	C
25.1 to 35.0	D
35.1 to 50.0	E
≥ 50.1	F

7.0 TRIP GENERATION/DISTRIBUTION/ASSIGNMENT

7.1 Project Trip Generation

Trip generation rates from the 11th Edition of the Trip Generation Manual, Institute of Transportation Engineers (ITE) were used for the proposed Project. The trip rates for each land use are described below:

- Library / Community Center - Land Use 495 Recreational Community Center from the 11th Edition of the Trip Generation Manual, ITE.
- Residential Homes - Land Use 210, Single Family Detached Housing from the 11th Edition of the Trip Generation Manual, ITE.
- Office Building - Land Use 712, Small Office Building from the 11th Edition of the Trip Generation Manual, ITE.
- Emergency Center – Land Use 650, Free Standing Emergency Center from the 11th Edition of the Trip Generation Manual, ITE.

Table 7–1 summarizes the Project trip generation.

An existing residential unit is currently designated for use as an emergency center that may be used as a non-congregating shelter facility during emergency events. While this is an existing use that would not change due to the project, this TIS nonetheless conservatively assumes an increase in traffic that may be expected during emergency operations of the shelter facility. Therefore, as seen in *Table 7-1*, the proposed Project is calculated to generate a total of 135 ADT with 8 AM peak hour trips (5 inbound / 3 outbound), and 21 PM peak hour trips (9 inbound / 12 outbound).

7.2 Trip Distribution/Assignment

The Project traffic was distributed and assigned to the street system based on the existing traffic patterns, location of employment/residential areas, as well as a review of the site proximity to I-8.

Figure 7-1 depicts the Project trip distribution and ***Figure 7-2*** depicts the Total Project traffic volumes.

TABLE 7–1
PROJECT TRIP GENERATION

Description	Size	Daily Trip Ends (ADT)		AM Peak Hour					PM Peak Hour				
		Rate [a]	Volume	Rate	In:Out Split	Volume			Rate	In:Out Split	Volume		
						In	Out	Total			In	Out	Total
Salerno Parcel													
Emergency Center	2,044 SF [b]	24.94 /KSF	51	1.12	50:50	1	1	2	1.52	46:54	1	2	3
Library / Community Center	1,440 SF [c]	30.56 / KSF	44	1.91	66:34	2	1	3	9.03	47:53	6	7	13
Single Family Residential	2 DU [d]	9.43 / DU	19	0.70	26:74	0	1	1	0.94	63:37	1	1	2
Walker Parcel													
Office	1,440 SF [e]	14.39 / KSF	21	1.67	82:18	2	0	2	2.16	34:66	1	2	3
Total Trips			**135**			**5**	**3**	**8**			**9**	**12**	**21**

Footnotes:

a. Rates are based on the 11th Edition of the Trip Generation Manual, Institute of Transportation Engineers (ITE).
b. Rates for Land Use 650, Free Standing Emergency Room from the 11th Edition of the Trip Generation Manual, ITE.
c. Rates for Land Use 495 Recreational Community Center from the 11th Edition of the Trip Generation Manual, ITE. Daily trips calculated using the formula Ln(T) = 0.98 Ln(X) + 3.42. PM peak hour rate is Ln(T) = 0.71 Ln(X) + 2.31, Where "T" is the number of trips and "X" is the size of the building in KSF.
d. Rates for Land Use 210, Single Family Detached Housing from the 11th Edition of the Trip Generation Manual, ITE.
e. Rates for Land Use 712, Small Office Building from the 11th Edition of the Trip Generation Manual, ITE.

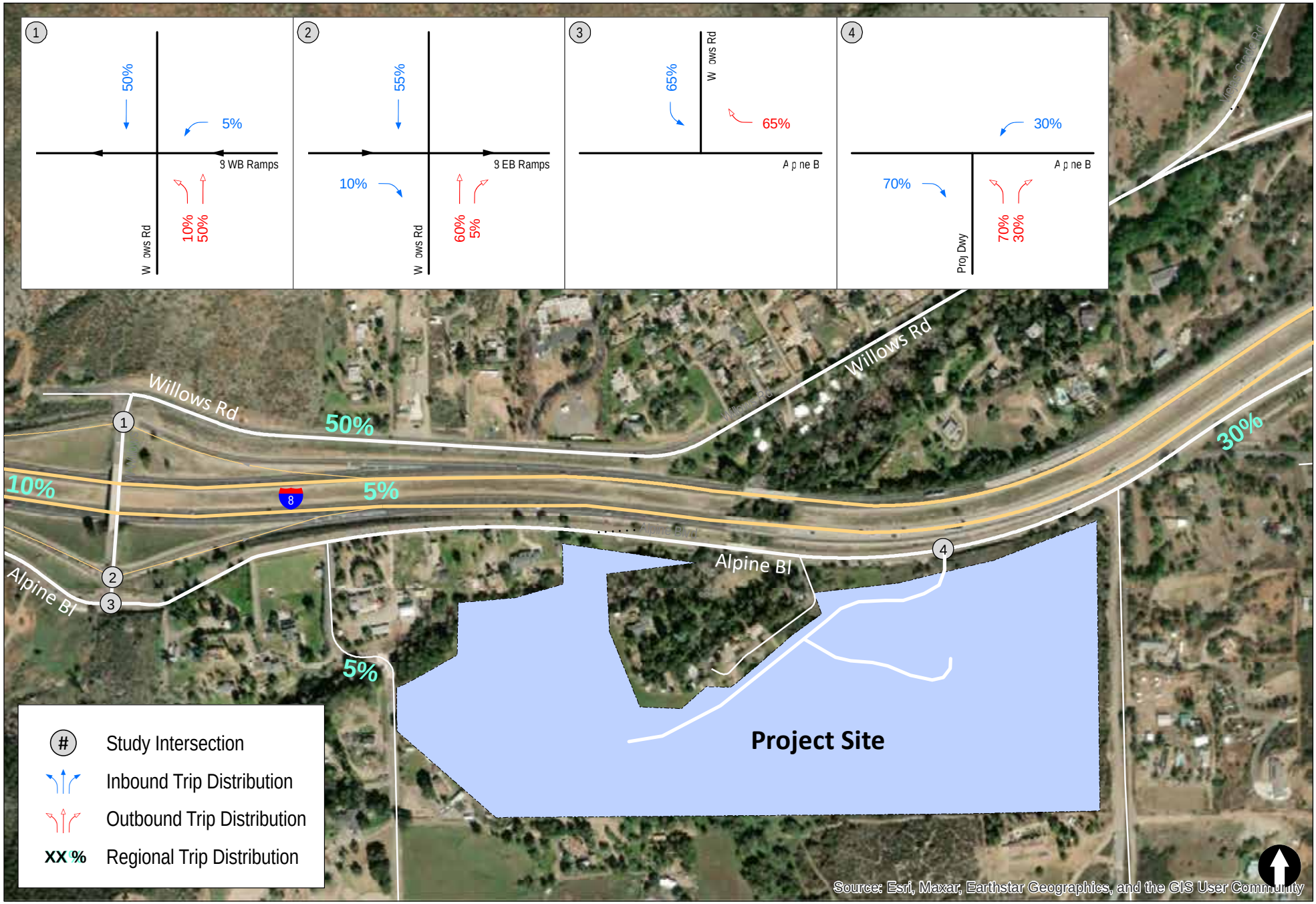

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Figure 7-1

Project Traffic Distribution

WALKER / SALERNO

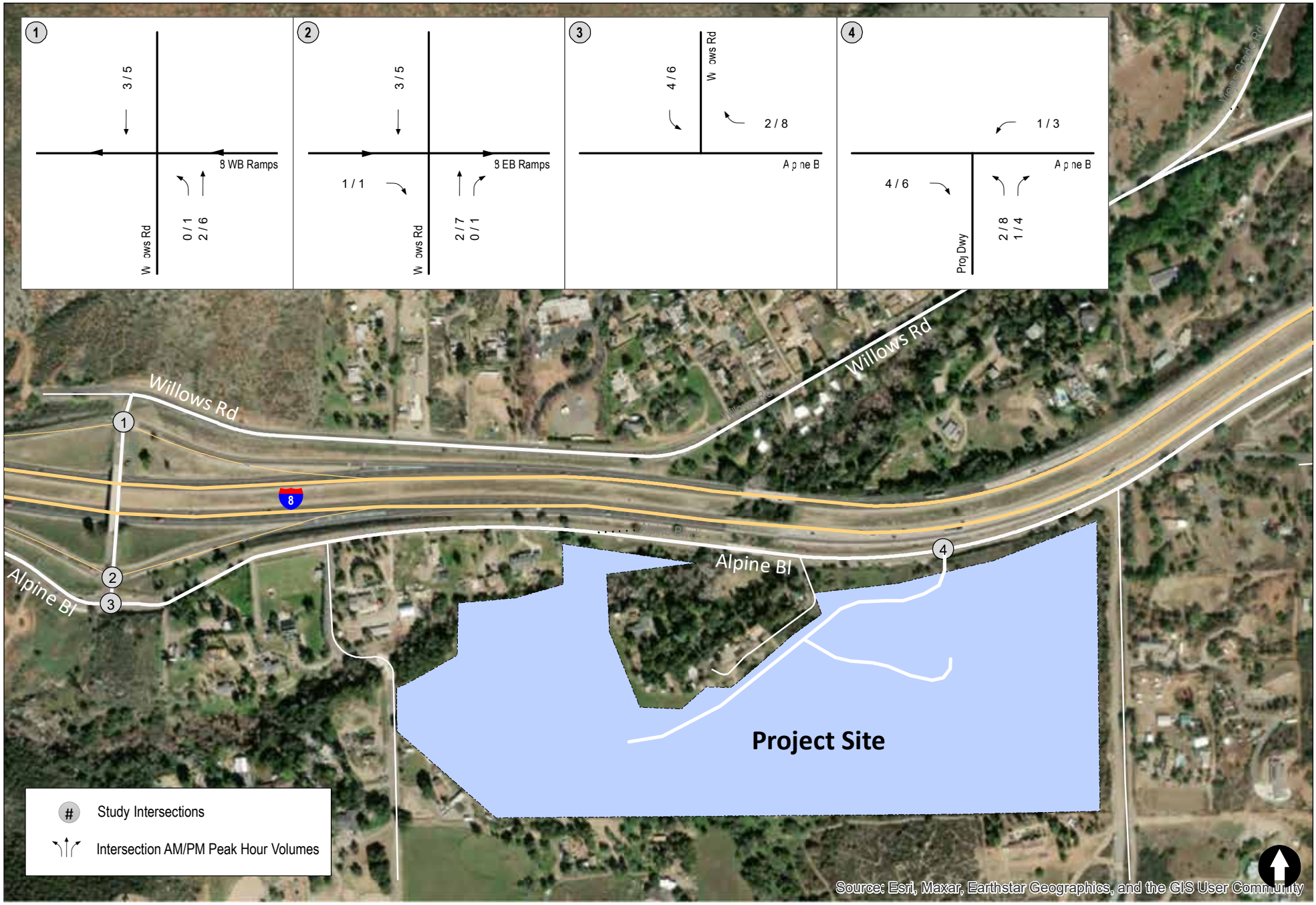

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Figure 7-2

Project Traffic Volumes

WALKER / SALERNO

8.0 ASSESSMENT OF OPENING YEAR (2026) VEHICULAR CONDITIONS

8.1 Opening Year Traffic Forecasting

The Project's Opening Year is 2026. Based on historical counts, a 2% annual ambient growth was used. Therefore a 2% annual growth for three years (2023 to 2026) was applied to the existing volumes to obtain the Opening Year without Project traffic volumes. The Project traffic was added to this traffic to obtain the Opening Year + Project traffic volumes.

Figure 8-1 depicts the Opening Year without Project traffic volumes and ***Figure 8-2*** depicts the Opening Year + Project traffic volumes.

8.2 Opening Year without Project Intersection Analysis

Table 8-1 summarizes the Opening Year without Project delay and levels of service at the study area intersections. As seen in *Table 8-1,* under the Opening Year without Project scenario, the minor street approaches are calculated to currently operate at LOS C or better.

Appendix C contains the Opening Year without Project peak hour intersection analysis worksheets.

8.3 Opening Year + Project Intersection Analysis

Table 8-1 summarizes the Opening Year + Project delay and levels of service at the study area intersections. As seen in *Table 8-1,* with the addition of Project traffic, the minor street approaches are calculated to continue to operate at LOS C or better.

Appendix D contains the Opening Year + Project peak hour intersection analysis worksheets.

TABLE 8–1
OPENING YEAR INTERSECTION OPERATIONS

Intersection	Control Type	Peak Hour	Opening Year Without Project		Opening Year + Project		Δ [c]	Improvement Triggered?
			Delay[a]	LOS [b]	Delay	LOS		
1. W. Willow Rd / I-8 WB Ramps	MSSC [d]	AM	16.2	C	16.3	C	0.1	No
		PM	17.3	C	17.6	C	0.3	No
2. W. Willow Rd / I-8 EB Ramps	MSSC	AM	14.0	B	14.1	B	0.1	No
		PM	14.9	B	15.3	C	0.4	No
3. W. Willow Rd / Alpine Blvd	MSSC [e]	AM	9.5	A	9.5	A	0.0	No
		PM	10.9	B	10.9	B	0.0	No
4. Project Dwy / Alpine Blvd	MSSC	AM	DNE	NA	9.1	A	NA	No
		PM	DNE	NA	10.5	B	NA	No

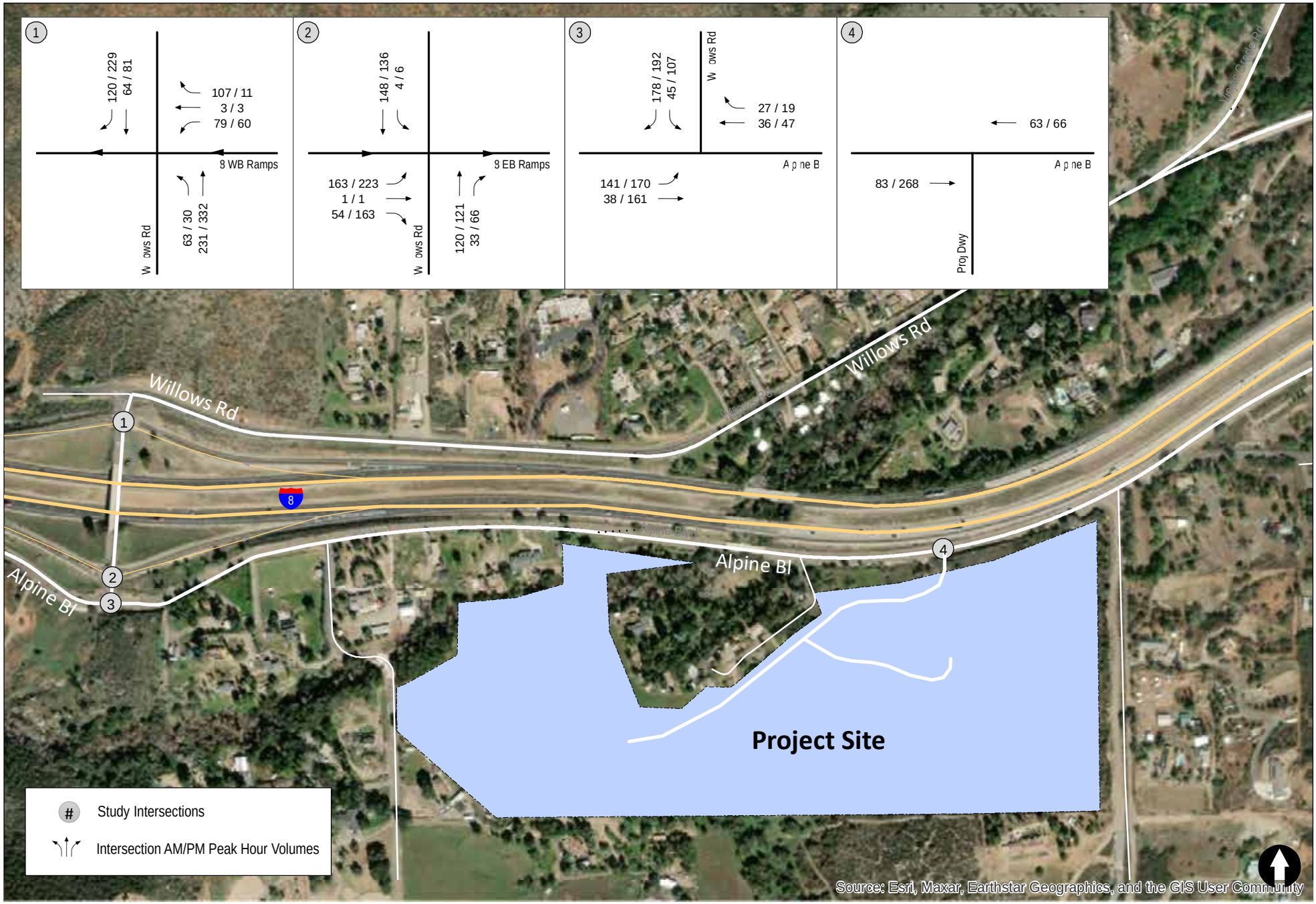
Footnotes:

a. Average delay expressed in seconds per vehicle.
b. Level of Service.
c. Δ denotes an increase in delay due to project.
d. MSSC – Minor Street Stop controlled intersection. Minor street delays are reported.
e. Analyzed as a Two-Way Stop controlled intersection (WB and EB as stop control). Only WB delay is reported.

General Notes:

DNE – Does not exist.
NA – Not applicable

UNSIGNALIZED	
Delay	LOS
0.0 ≤ 10.0	A
10.1 to 15.0	B
15.1 to 25.0	C
25.1 to 35.0	D
35.1 to 50.0	E
≥ 50.1	F



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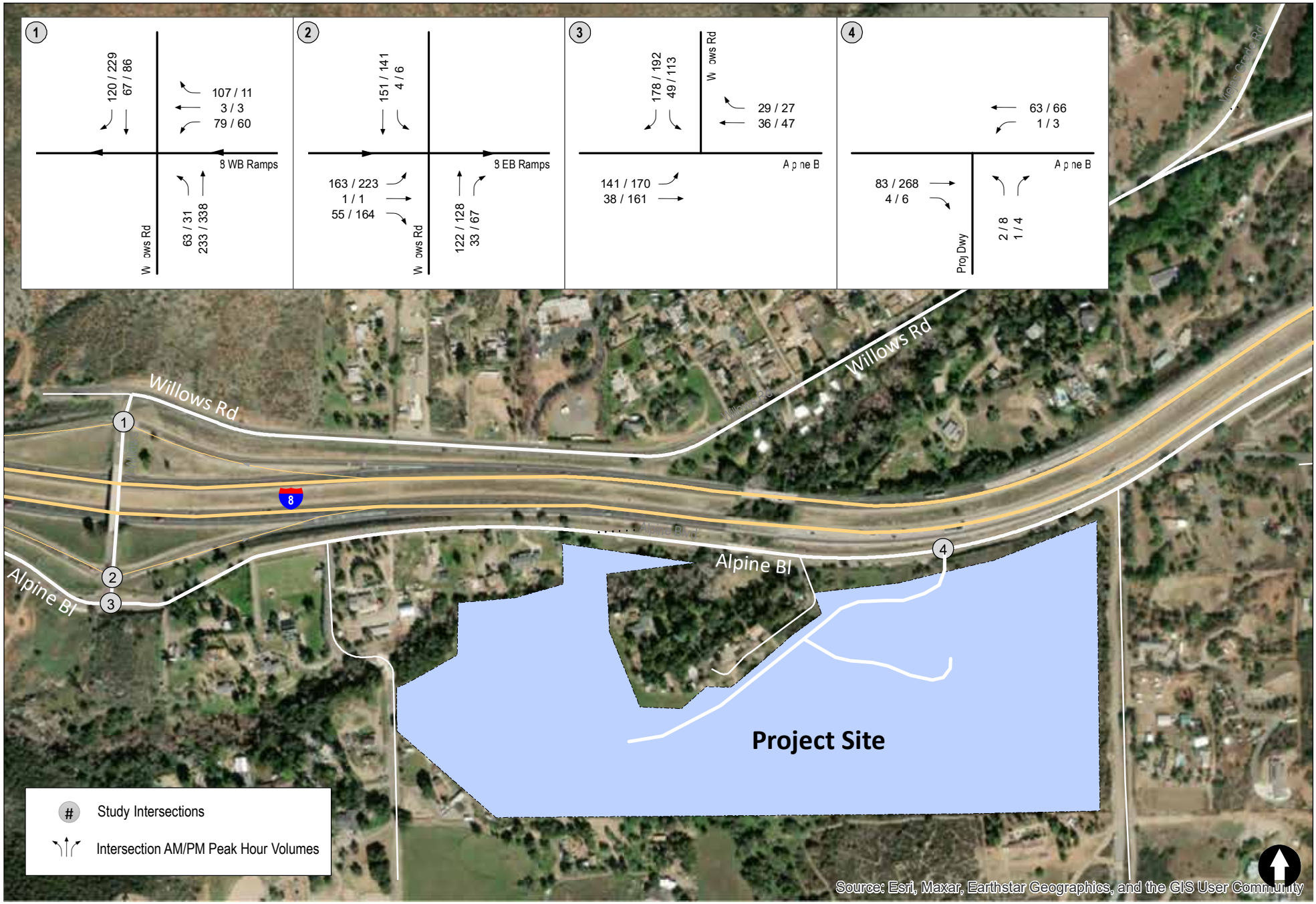
Date: 10/26/2023
Time: 8:21 AM

Figure 8-1

Opening Year without Project Traffic Volumes

WALKER / SALERNO



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Date: 1/9/2024
Time: 2:13 PM

Figure 8-2

Opening Year + Project Traffic Volumes

WALKER / SALERNO

9.0 PROJECT ACCESS

The project proposes to build a new access road with full access at an existing driveway on Alpine Boulevard, just east of the Willows Road interchange. As described in Section 2.3 Project access, as a project feature, the Project will install a stop sign at the Driveway for (northbound) traffic exiting to Alpine Boulevard as shown on *Figure 2-3*.

The Project Driveway intersection is calculated to operate at LOS A during the AM and LOS B during the PM peak hours. The proposed driveway will be fronting a 2-lane undivided roadway with a posted speed limit of 55 mph.

10.0 ACTIVE TRANSPORTATION REVIEW

10.1 Bicycle Conditions

Currently, there are Class II bicycle lanes in both directions of travel along the entire length of Willows Road. No bike lanes are provided on Alpine Boulevard. According to the County of San Diego *Bicycle Master Plan* dated September 2003, and updated on October 29, 2008, no bike lanes are proposed in the Project vicinity.

10.2 Pedestrian Conditions

Currently, there are no sidewalks in the project vicinity, and none are planned.

10.3 Transit Conditions

The San Diego Metropolitan Transit System (MTS) provides local and regional connections between neighborhoods and cities in the County of San Diego. There are 2 MTS bus routes serving the Project area. The following are descriptions of the transit services within the Project vicinity:

Route 838

Route 838 runs between East County Square and Viejas Reservation. There are 44 stops along this route. Weekday services begin at approximately 5:05 AM with 60-minute headways and end at approximately 8:45 PM. Weekend services begin at approximately 6:50 AM with 60-minute headways and end at approximately 7:45 PM. The nearest bus stop to the project site is located at Willows Road which is at a walking distance of approximately 1-mile from the Project driveway.

Route 888

Route 888 runs between Jacumba Hot Springs and El Cajon. There are 72 stops along this route. Monday and Friday service begins at approximately 9:40 AM and ends at approximately 12:10 PM from Jacumba Hot Springs to El Cajon. From El Cajon to Jacumba Hot Springs, Monday and Friday service begins at approximately 4:10 PM and ends at approximately 6:40 PM. Route 888 does not operate on Saturday, Sunday, Tuesday, Wednesday, Thursday, or holidays. The nearest bus stop to the project site is located along Willows Road, which is a walking distance of approximately 1-mile from the Project driveway.

Appendix E includes the timetable of these bus routes.

11.0 CONCLUSIONS

Based on the peak hour intersection analysis, and the adopted guidelines, no vehicular mobility deficiencies were identified. Therefore, no improvements are required at the study area intersections.

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TECHNICAL APPENDICES TO THE LOCAL MOBILITY ANALYSIS

EWIIAAPAAYP TRIBAL FACILITIES AND HOUSING PROJECT

January 9, 2024

LLG Ref. 3-23-3824

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APPENDICES

APPENDIX	
A.	Intersection Manual Count Sheets
B.	Peak Hour Intersection Analysis Worksheets – Existing
C.	Peak Hour Intersection Analysis Worksheets – Opening Year Without Project
D.	Peak Hour Intersection Analysis Worksheets – Opening Year + Project
E.	Bus Route Schedules

APPENDIX A

INTERSECTION MANUAL COUNT SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

County of San Diego
N/S: W Willows Road
E/W: I-8 Westbound Ramps
Weather: Clear

File Name : 01_CSD_Wil_8W AM
Site Code : 05723847
Start Date : 9/19/2023
Page No : 1

Groups Printed- Total Volume

	W Willows Road Southbound				I-8 Westbound Off Ramp Westbound				W Willows Road Northbound				I-8 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	11	28	39	19	0	0	19	20	26	0	46	0	0	0	0	104
07:15 AM	0	14	31	45	25	1	0	26	20	36	0	56	0	0	0	0	127
07:30 AM	0	20	32	52	14	0	3	17	16	55	0	71	0	0	0	0	140
07:45 AM	0	11	24	35	19	2	6	27	13	78	0	91	0	0	0	0	153
Total	0	56	115	171	77	3	9	89	69	195	0	264	0	0	0	0	524
08:00 AM	0	15	26	41	16	0	1	17	10	49	0	59	0	0	0	0	117
08:15 AM	0	14	30	44	26	0	1	27	18	38	0	56	0	0	0	0	127
08:30 AM	0	13	24	37	21	0	2	23	13	39	0	52	0	0	0	0	112
08:45 AM	0	13	23	36	21	2	0	23	15	50	0	65	0	0	0	0	124
Total	0	55	103	158	84	2	4	90	56	176	0	232	0	0	0	0	480
Grand Total	0	111	218	329	161	5	13	179	125	371	0	496	0	0	0	0	1004
Apprch %	0	33.7	66.3		89.9	2.8	7.3		25.2	74.8	0		0	0	0		
Total %	0	11.1	21.7	32.8	16	0.5	1.3	17.8	12.5	37	0	49.4	0	0	0	0	

	W Willows Road Southbound				I-8 Westbound Off Ramp Westbound				W Willows Road Northbound				I-8 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	14	31	45	**25**	1	0	26	**20**	36	0	56	0	0	0	0	127
07:30 AM	0	**20**	**32**	**52**	14	0	3	17	16	55	0	71	0	0	0	0	140
07:45 AM	0	11	24	35	19	**2**	**6**	**27**	13	**78**	0	**91**	0	0	0	0	**153**
08:00 AM	0	15	26	41	16	0	1	17	10	49	0	59	0	0	0	0	117
Total Volume	0	60	113	173	74	3	10	87	59	218	0	277	0	0	0	0	537
% App. Total	0	34.7	65.3		85.1	3.4	11.5		21.3	78.7	0		0	0	0		
PHF	.000	.750	.883	.832	.740	.375	.417	.806	.738	.699	.000	.761	.000	.000	.000	.000	.877

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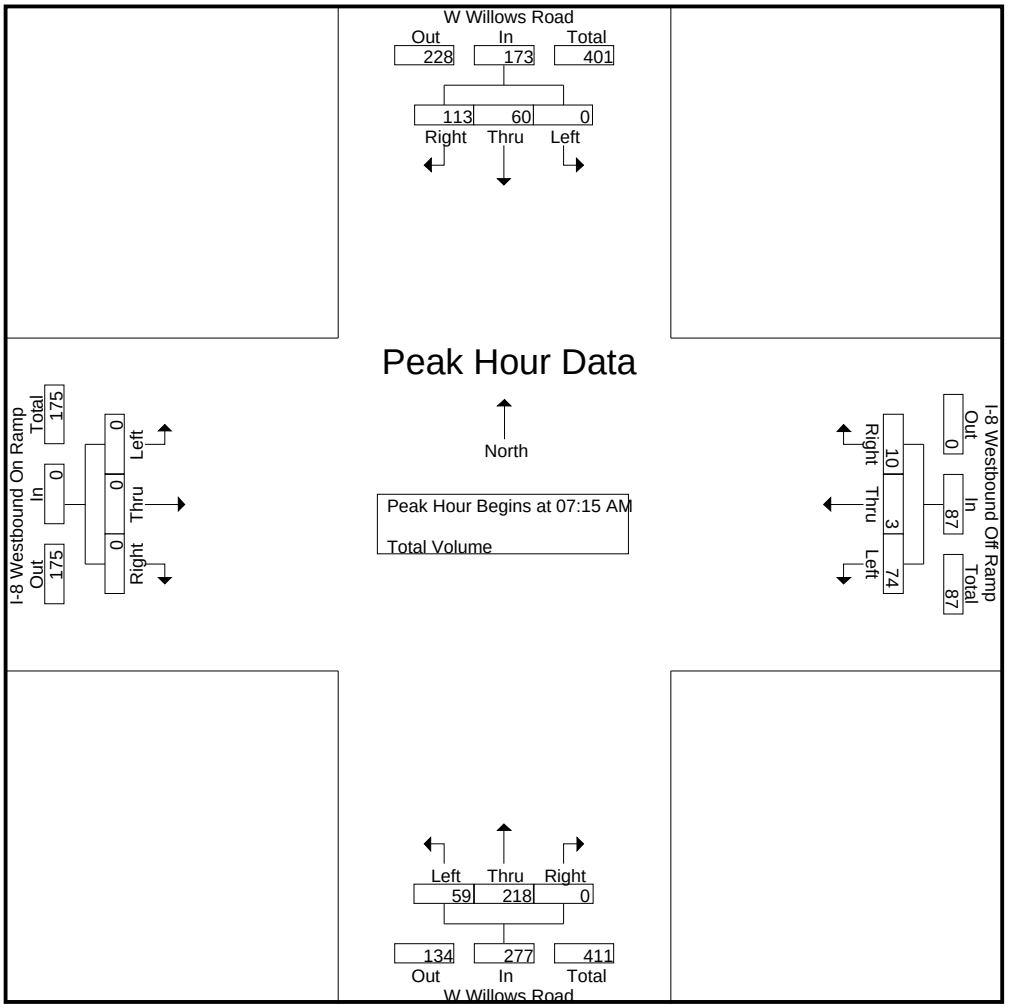
Start Date : 9/19/2023
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:15 AM				07:45 AM				07:15 AM				07:00 AM			
+0 mins.	0	14	31	45	19	**2**	**6**	**27**	**20**	36	0	56	0	0	0	0
+15 mins.	0	**20**	**32**	**52**	16	0	1	17	16	55	0	71	0	0	0	0
+30 mins.	0	11	24	35	**26**	0	1	27	13	**78**	0	**91**	0	0	0	0
+45 mins.	0	15	26	41	21	0	2	23	10	49	0	59	0	0	0	0
Total Volume	0	60	113	173	82	2	10	94	59	218	0	277	0	0	0	0
% App. Total	0	34.7	65.3		87.2	2.1	10.6		21.3	78.7	0		0	0	0	
PHF	.000	.750	.883	.832	.788	.250	.417	.870	.738	.699	.000	.761	.000	.000	.000	.000

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File Name : 01_CSD_Wil_8W PM
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Page No : 1

Groups Printed- Total Volume

	W Willows Road Southbound				I-8 Westbound Off Ramp Westbound				W Willows Road Northbound				I-8 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	11	53	64	13	2	3	18	12	65	0	77	0	0	0	0	159
04:15 PM	0	22	57	79	11	1	2	14	6	84	0	90	0	0	0	0	183
04:30 PM	0	22	68	90	23	0	1	24	11	94	0	105	0	0	0	0	219
04:45 PM	0	13	37	50	17	1	2	20	2	67	0	69	0	0	0	0	139
Total	0	68	215	283	64	4	8	76	31	310	0	341	0	0	0	0	700
05:00 PM	0	19	54	73	6	1	5	12	9	68	0	77	0	0	0	0	162
05:15 PM	0	18	44	62	7	0	2	9	7	76	0	83	0	0	0	0	154
05:30 PM	0	18	43	61	13	1	1	15	13	69	0	82	0	0	0	0	158
05:45 PM	0	13	34	47	12	0	0	12	8	66	0	74	0	0	0	0	133
Total	0	68	175	243	38	2	8	48	37	279	0	316	0	0	0	0	607
Grand Total	0	136	390	526	102	6	16	124	68	589	0	657	0	0	0	0	1307
Apprch %	0	25.9	74.1		82.3	4.8	12.9		10.4	89.6	0		0	0	0		
Total %	0	10.4	29.8	40.2	7.8	0.5	1.2	9.5	5.2	45.1	0	50.3	0	0	0	0	

	W Willows Road Southbound				I-8 Westbound Off Ramp Westbound				W Willows Road Northbound				I-8 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	0	**22**	57	79	11	**1**	2	14	6	84	0	90	0	0	0	0	183
04:30 PM	0	22	**68**	**90**	**23**	0	1	**24**	**11**	**94**	0	**105**	0	0	0	0	**219**
04:45 PM	0	13	37	50	17	1	2	20	2	67	0	69	0	0	0	0	139
05:00 PM	0	19	54	73	6	1	**5**	12	9	68	0	77	0	0	0	0	162
Total Volume	0	76	216	292	57	3	10	70	28	313	0	341	0	0	0	0	703
% App. Total	0	26	74		81.4	4.3	14.3		8.2	91.8	0		0	0	0		
PHF	.000	.864	.794	.811	.620	.750	.500	.729	.636	.832	.000	.812	.000	.000	.000	.000	.803

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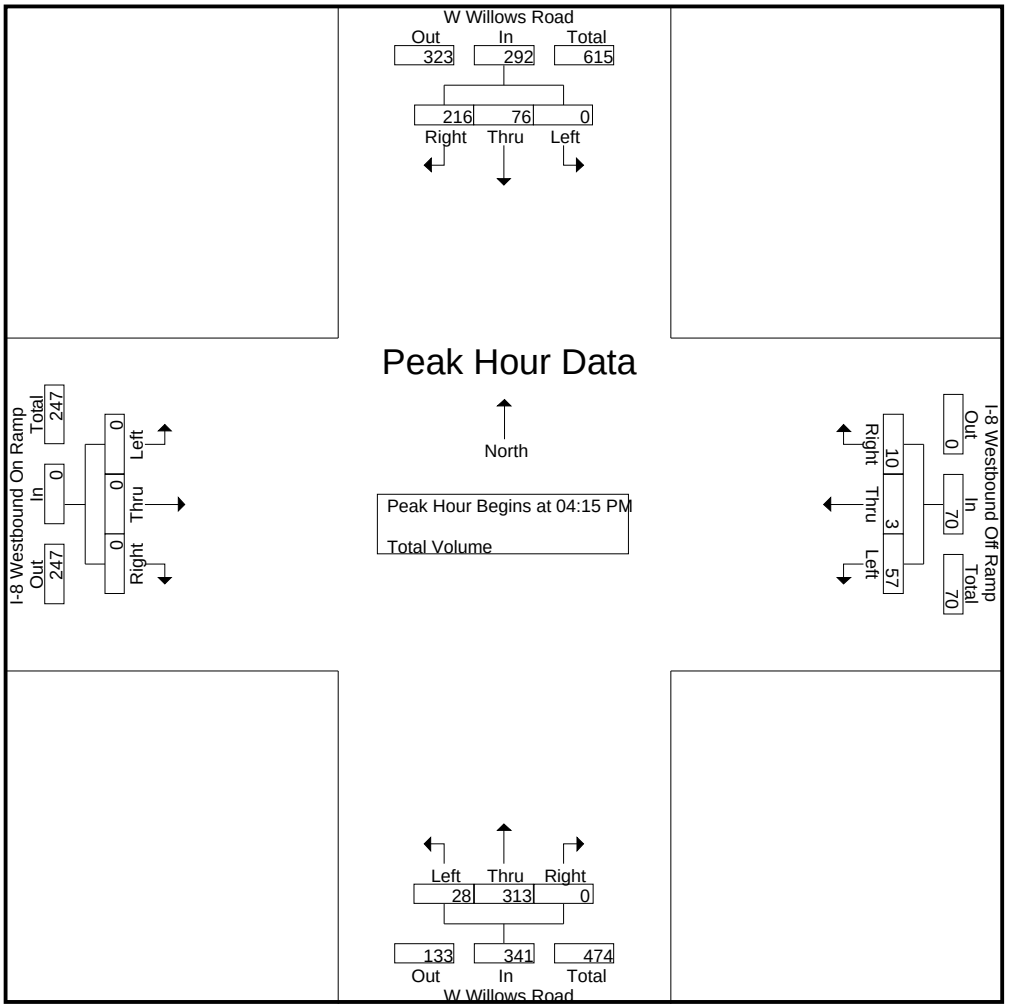

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	**22**	57	79	13	**2**	**3**	18	**12**	65	0	77	0	0	0	0
+15 mins.	0	22	**68**	**90**	11	1	2	14	6	84	0	90	0	0	0	0
+30 mins.	0	13	37	50	**23**	0	1	**24**	11	**94**	0	**105**	0	0	0	0
+45 mins.	0	19	54	73	17	1	2	20	2	67	0	69	0	0	0	0
Total Volume	0	76	216	292	64	4	8	76	31	310	0	341	0	0	0	0
% App. Total	0	26	74		84.2	5.3	10.5		9.1	90.9	0		0	0	0	
PHF	.000	.864	.794	.811	.696	.500	.667	.792	.646	.824	.000	.812	.000	.000	.000	.000

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File Name : 02_CSD_Wil_8E AM
Site Code : 05723847
Start Date : 9/19/2023
Page No : 1

Groups Printed- Total Volume

	W Willows Road Southbound				I-8 Eastbound On Ramp Westbound				W Willows Road Northbound				I-8 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	29	0	29	0	0	0	0	0	26	13	39	19	0	10	29	97
07:15 AM	4	35	0	39	0	0	0	0	0	26	7	33	29	0	12	41	113
07:30 AM	3	33	0	36	0	0	0	0	0	35	7	42	36	0	11	47	125
07:45 AM	1	30	0	31	0	0	0	0	0	26	7	33	63	0	17	80	144
Total	8	127	0	135	0	0	0	0	0	113	34	147	147	0	50	197	479
08:00 AM	0	35	0	35	0	0	0	0	0	22	8	30	30	0	8	38	103
08:15 AM	0	41	0	41	0	0	0	0	0	30	9	39	25	1	15	41	121
08:30 AM	0	38	0	38	0	0	0	0	0	27	12	39	24	0	19	43	120
08:45 AM	0	36	0	36	0	0	0	0	0	40	11	51	24	0	21	45	132
Total	0	150	0	150	0	0	0	0	0	119	40	159	103	1	63	167	476
Grand Total	8	277	0	285	0	0	0	0	0	232	74	306	250	1	113	364	955
Apprch %	2.8	97.2	0		0	0	0		0	75.8	24.2		68.7	0.3	31		
Total %	0.8	29	0	29.8	0	0	0	0	0	24.3	7.7	32	26.2	0.1	11.8	38.1	

	W Willows Road Southbound				I-8 Eastbound On Ramp Westbound				W Willows Road Northbound				I-8 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**3**	33	0	36	0	0	0	0	0	**35**	7	**42**	36	0	11	47	125
07:45 AM	1	30	0	31	0	0	0	0	0	26	7	33	**63**	0	**17**	**80**	**144**
08:00 AM	0	35	0	35	0	0	0	0	0	22	8	30	30	0	8	38	103
08:15 AM	0	**41**	0	**41**	0	0	0	0	0	30	**9**	39	25	**1**	15	41	121
Total Volume	4	139	0	143	0	0	0	0	0	113	31	144	154	1	51	206	493
% App. Total	2.8	97.2	0		0	0	0		0	78.5	21.5		74.8	0.5	24.8		
PHF	.333	.848	.000	.872	.000	.000	.000	.000	.000	.807	.861	.857	.611	.250	.750	.644	.856

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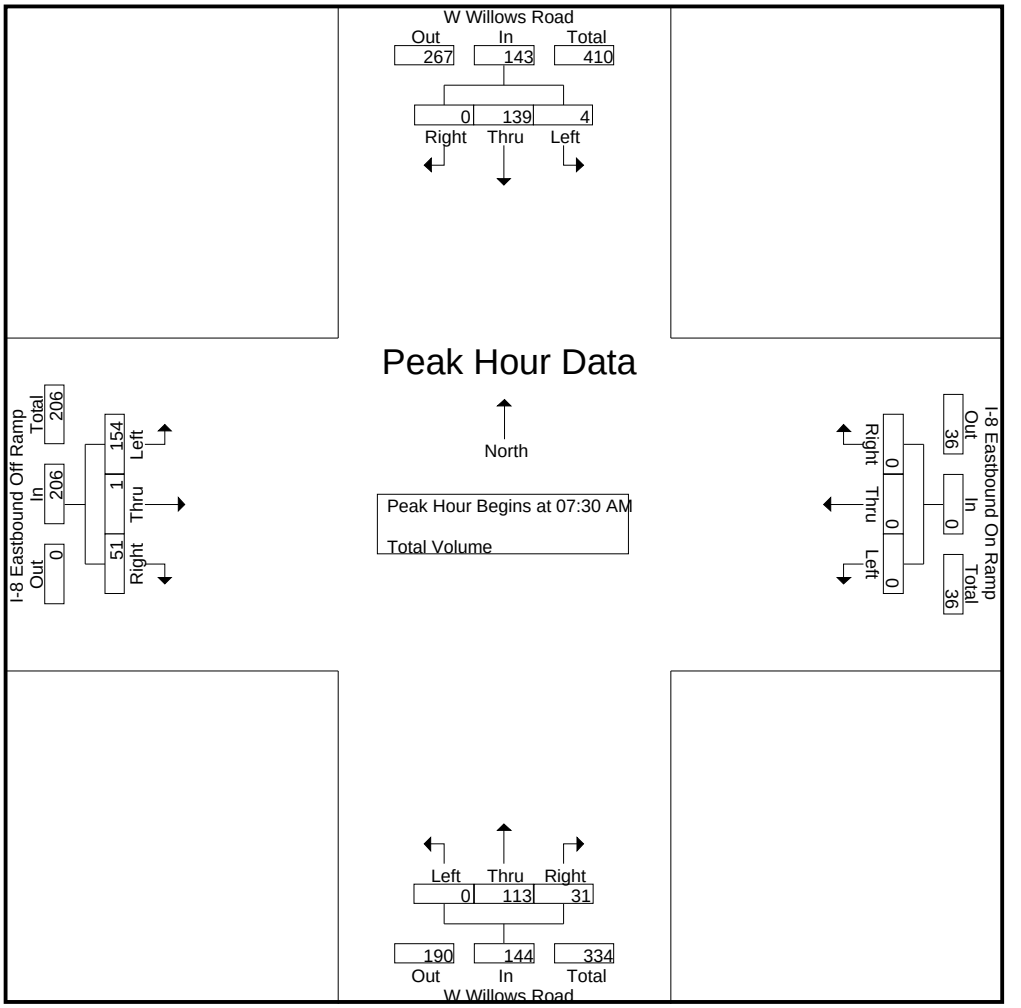
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				08:00 AM				07:15 AM			
+0 mins.	0	35	0	35	0	0	0	0	0	22	8	30	29	0	12	41
+15 mins.	0	**41**	0	**41**	0	0	0	0	0	30	9	39	36	0	11	47
+30 mins.	0	38	0	38	0	0	0	0	0	27	**12**	39	**63**	0	**17**	**80**
+45 mins.	0	36	0	36	0	0	0	0	0	**40**	11	**51**	30	0	8	38
Total Volume	0	150	0	150	0	0	0	0	0	119	40	159	158	0	48	206
% App. Total	0	100	0		0	0	0		0	74.8	25.2		76.7	0	23.3	
PHF	.000	.915	.000	.915	.000	.000	.000	.000	.000	.744	.833	.779	.627	.000	.706	.644

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File Name : 02_CSD_Wil_8E PM
Site Code : 05723847
Start Date : 9/19/2023

Groups Printed- Total Volume

	W Willows Road Southbound				I-8 Eastbound On Ramp Westbound				W Willows Road Northbound				I-8 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	0	25	0	25	0	0	0	0	0	27	17	44	43	0	47	90	159
04:15 PM	0	33	0	33	0	0	0	0	0	30	16	46	60	0	29	89	168
04:30 PM	4	44	0	48	0	0	0	0	0	38	13	51	62	1	39	102	201
04:45 PM	2	26	0	28	0	0	0	0	0	19	16	35	45	0	39	84	147
Total	6	128	0	134	0	0	0	0	0	114	62	176	210	1	154	365	675
05:00 PM	1	27	0	28	0	0	0	0	0	25	15	40	50	0	32	82	150
05:15 PM	1	23	0	24	0	0	0	0	0	29	7	36	52	1	36	89	149
05:30 PM	1	31	0	32	0	0	0	0	0	30	14	44	49	0	33	82	158
05:45 PM	0	23	0	23	0	0	0	0	0	28	12	40	45	0	14	59	122
Total	3	104	0	107	0	0	0	0	0	112	48	160	196	1	115	312	579
Grand Total	9	232	0	241	0	0	0	0	0	226	110	336	406	2	269	677	1254
Apprch %	3.7	96.3	0		0	0	0		0	67.3	32.7		60	0.3	39.7		
Total %	0.7	18.5	0	19.2	0	0	0	0	0	18	8.8	26.8	32.4	0.2	21.5	54	

	W Willows Road Southbound				I-8 Eastbound On Ramp Westbound				W Willows Road Northbound				I-8 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	0	25	0	25	0	0	0	0	0	27	**17**	44	43	0	**47**	90	159
04:15 PM	0	33	0	33	0	0	0	0	0	30	16	46	60	0	29	89	168
04:30 PM	**4**	**44**	0	**48**	0	0	0	0	0	**38**	13	**51**	**62**	**1**	39	**102**	**201**
04:45 PM	2	26	0	28	0	0	0	0	0	19	16	35	45	0	39	84	147
Total Volume	6	128	0	134	0	0	0	0	0	114	62	176	210	1	154	365	675
% App. Total	4.5	95.5	0		0	0	0		0	64.8	35.2		57.5	0.3	42.2		
PHF	.375	.727	.000	.698	.000	.000	.000	.000	.000	.750	.912	.863	.847	.250	.819	.895	.840

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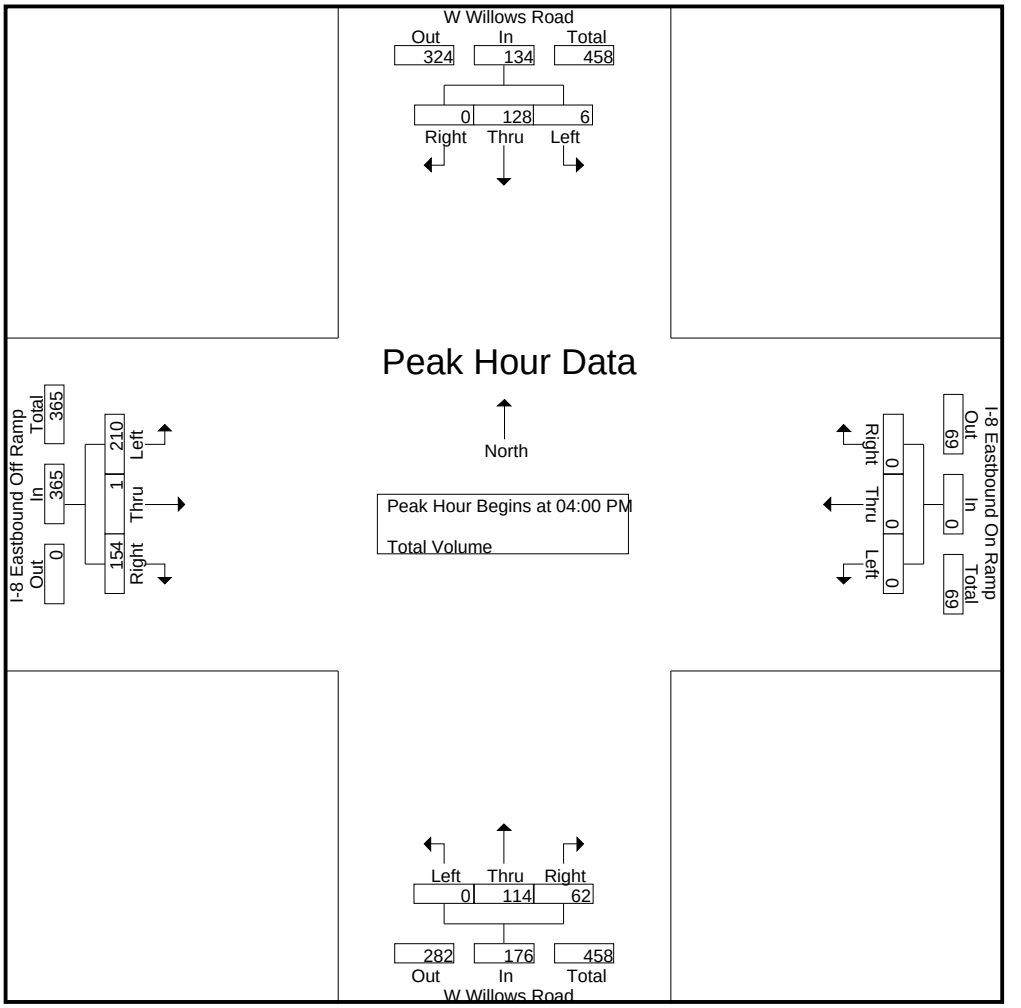
Start Date : 9/19/2023
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:00 PM				04:00 PM				04:00 PM			
+0 mins.	0	33	0	33	0	0	0	0	0	27	**17**	44	43	0	**47**	90
+15 mins.	**4**	**44**	0	**48**	0	0	0	0	0	30	16	46	60	0	29	89
+30 mins.	2	26	0	28	0	0	0	0	0	**38**	13	**51**	**62**	**1**	39	**102**
+45 mins.	1	27	0	28	0	0	0	0	0	19	16	35	45	0	39	84
Total Volume	7	130	0	137	0	0	0	0	0	114	62	176	210	1	154	365
% App. Total	5.1	94.9	0		0	0	0		0	64.8	35.2		57.5	0.3	42.2	
PHF	.438	.739	.000	.714	.000	.000	.000	.000	.000	.750	.912	.863	.847	.250	.819	.895

Counts Unlimited, Inc.
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Corona, CA 92878
(951) 268-6268

County of San Diego
N/S: W Willows Road
E/W: Alpine Boulevard
Weather: Clear

File Name : 03_CSD_Wil_Alp AM
Site Code : 05723847
Start Date : 9/19/2023
Page No : 1

Groups Printed- Total Volume

	W Willows Road Southbound			Alpine Boulevard Westbound			Alpine Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
07:00 AM	7	31	38	6	4	10	35	6	41	89
07:15 AM	9	38	47	6	7	13	26	7	33	93
07:30 AM	6	38	44	5	4	9	38	8	46	99
07:45 AM	9	38	47	7	8	15	25	14	39	101
Total	31	145	176	24	23	47	124	35	159	382
08:00 AM	7	36	43	6	5	11	25	9	34	88
08:15 AM	9	45	54	9	8	17	31	8	39	110
08:30 AM	13	43	56	10	6	16	33	7	40	112
08:45 AM	13	44	57	9	6	15	44	12	56	128
Total	42	168	210	34	25	59	133	36	169	438
Grand Total	73	313	386	58	48	106	257	71	328	820
Apprch %	18.9	81.1		54.7	45.3		78.4	21.6		
Total %	8.9	38.2	47.1	7.1	5.9	12.9	31.3	8.7	40	

	W Willows Road Southbound			Alpine Boulevard Westbound			Alpine Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 08:00 AM										
08:00 AM	7	36	43	6	5	11	25	9	34	88
08:15 AM	9	**45**	54	9	**8**	**17**	31	8	39	110
08:30 AM	**13**	43	56	**10**	6	16	33	7	40	112
08:45 AM	13	44	**57**	9	6	15	**44**	**12**	**56**	**128**
Total Volume	42	168	210	34	25	59	133	36	169	438
% App. Total	20	80		57.6	42.4		78.7	21.3		
PHF	.808	.933	.921	.850	.781	.868	.756	.750	.754	.855

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File Name : 03_CSD_Wil_Alp AM
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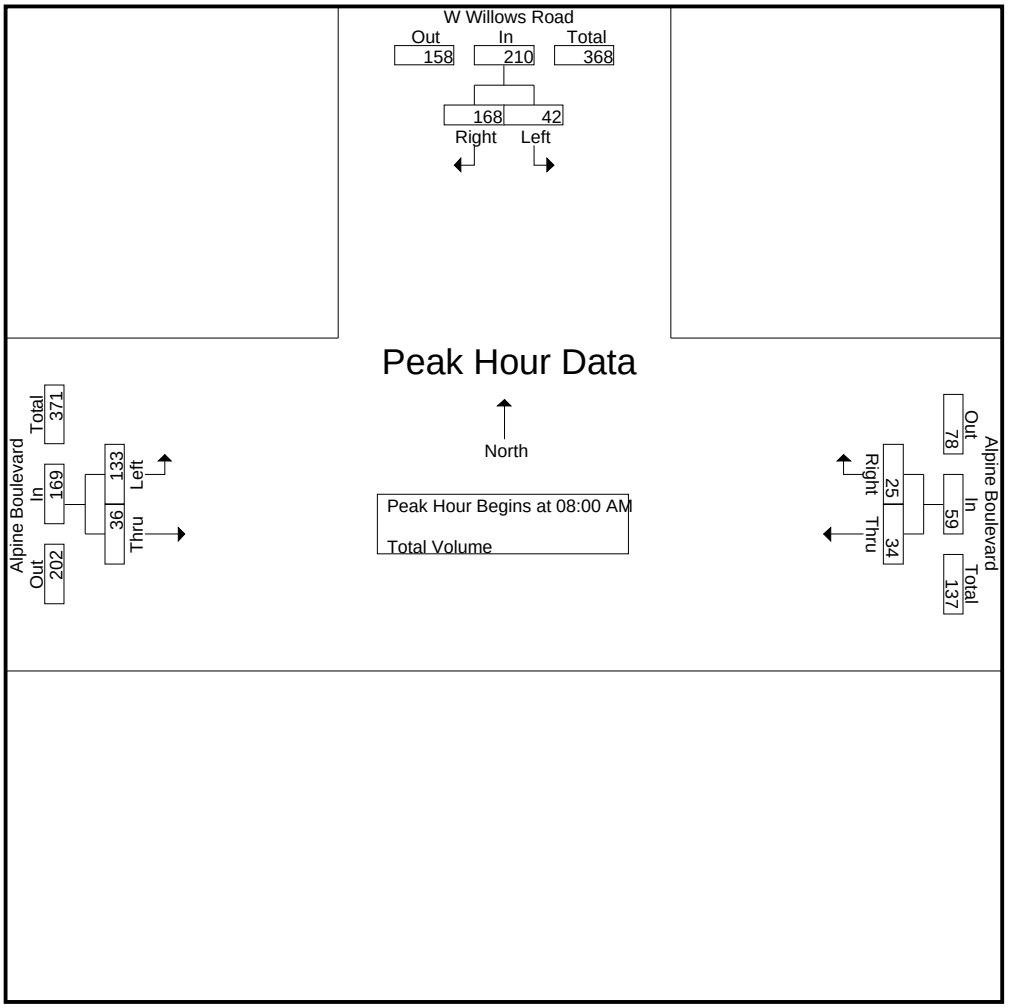

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM			07:45 AM			08:00 AM		
+0 mins.	7	36	43	7	**8**	15	25	9	34
+15 mins.	9	**45**	54	6	5	11	31	8	39
+30 mins.	**13**	43	56	9	8	**17**	33	7	40
+45 mins.	13	44	**57**	**10**	6	16	**44**	**12**	**56**
Total Volume	42	168	210	32	27	59	133	36	169
% App. Total	20	80		54.2	45.8		78.7	21.3	
PHF	.808	.933	.921	.800	.844	.868	.756	.750	.754

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County of San Diego
N/S: W Willows Road
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File Name : 03_CSD_Wil_Alp PM
Site Code : 05723847
Start Date : 9/19/2023
Page No : 1

Groups Printed- Total Volume

	W Willows Road Southbound			Alpine Boulevard Westbound			Alpine Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
04:00 PM	37	37	74	11	9	20	37	39	76	170
04:15 PM	15	46	61	14	4	18	42	39	81	160
04:30 PM	25	55	80	9	4	13	46	40	86	179
04:45 PM	24	43	67	10	1	11	35	34	69	147
Total	101	181	282	44	18	62	160	152	312	656
05:00 PM	19	38	57	7	3	10	38	43	81	148
05:15 PM	28	31	59	6	7	13	28	30	58	130
05:30 PM	18	46	64	3	7	10	37	41	78	152
05:45 PM	9	29	38	7	4	11	35	30	65	114
Total	74	144	218	23	21	44	138	144	282	544
Grand Total	175	325	500	67	39	106	298	296	594	1200
Apprch %	35	65		63.2	36.8		50.2	49.8		
Total %	14.6	27.1	41.7	5.6	3.2	8.8	24.8	24.7	49.5	

	W Willows Road Southbound			Alpine Boulevard Westbound			Alpine Boulevard Eastbound			
Start Time	Left	Right	App. Total	Thru	Right	App. Total	Left	Thru	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:00 PM										
04:00 PM	**37**	37	74	11	**9**	**20**	37	39	76	170
04:15 PM	15	46	61	**14**	4	18	42	39	81	160
04:30 PM	25	**55**	**80**	9	4	13	**46**	**40**	**86**	**179**
04:45 PM	24	43	67	10	1	11	35	34	69	147
Total Volume	101	181	282	44	18	62	160	152	312	656
% App. Total	35.8	64.2		71	29		51.3	48.7		
PHF	.682	.823	.881	.786	.500	.775	.870	.950	.907	.916

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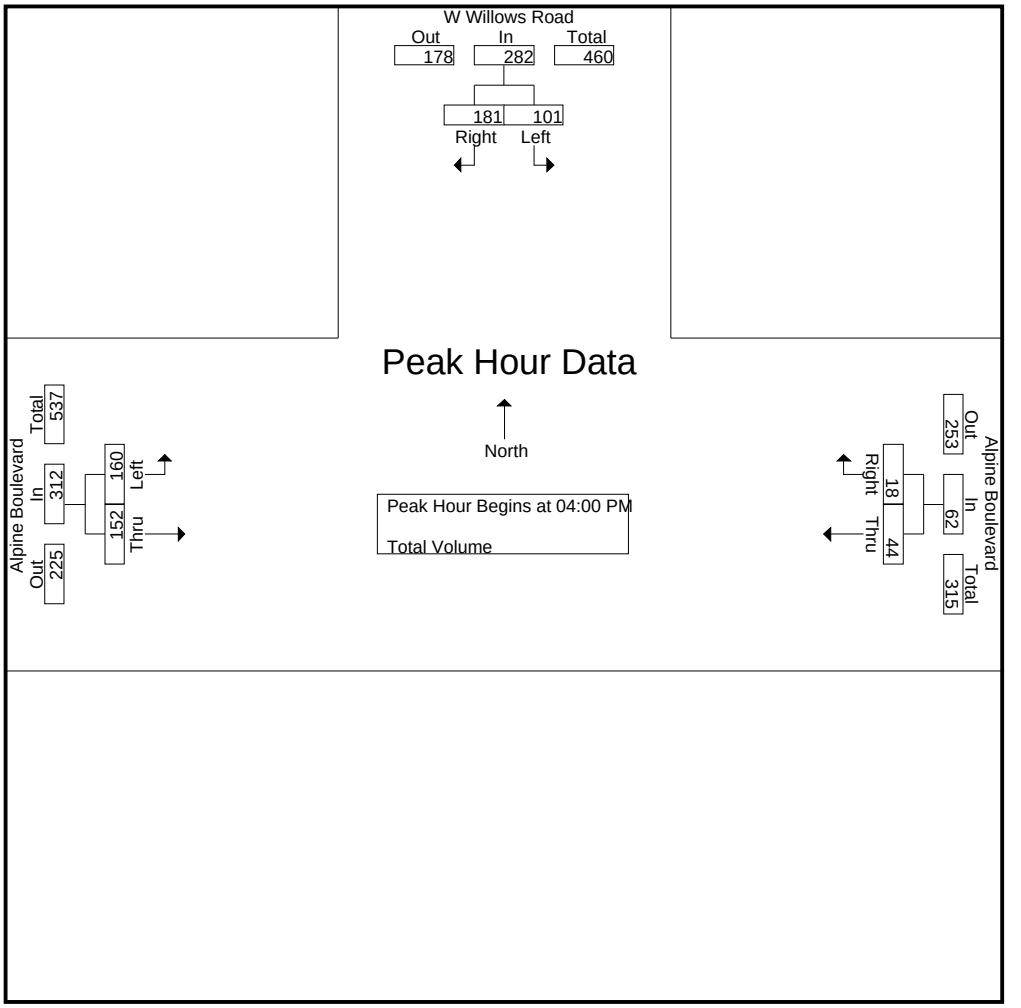


Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM			04:00 PM			04:15 PM		
+0 mins.	**37**	37	74	11	**9**	**20**	42	39	81
+15 mins.	15	46	61	**14**	4	18	**46**	40	**86**
+30 mins.	25	**55**	**80**	9	4	13	35	34	69
+45 mins.	24	43	67	10	1	11	38	**43**	81
Total Volume	101	181	282	44	18	62	161	156	317
% App. Total	35.8	64.2		71	29		50.8	49.2	
PHF	.682	.823	.881	.786	.500	.775	.875	.907	.922

APPENDIX B

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – EXISTING

Intersection	
Int Delay, s/veh	4.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	74	3	101	59	218	0	0	60	113
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1		Major1			Major2			
Conflicting Flow All	583	651	287	208	0	-	-	-	0
Stage 1	443	443	-	-	-	-	-	-	-
Stage 2	140	208	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	475	388	752	1363	-	0	0	-	-
Stage 1	647	576	-	-	-	0	0	-	-
Stage 2	887	730	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	443	0	752	1363	-	-	-	-	-
Mov Cap-2 Maneuver	443	0	-	-	-	-	-	-	-
Stage 1	603	0	-	-	-	-	-	-	-
Stage 2	887	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	12.6	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1363	-	443	752	-	-
HCM Lane V/C Ratio	0.057	-	0.206	0.171	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.8	0.6	-	-

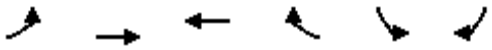
Intersection	
Int Delay, s/veh	6.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	154	1	51	0	0	0	0	113	31	4	139	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	319	337	160	-	0	0	167	0	0
Stage 1	170	170	-	-	-	-	-	-	-
Stage 2	149	167	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	674	584	885	0	-	-	1411	-	0
Stage 1	860	758	-	0	-	-	-	-	0
Stage 2	879	760	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	671	0	885	-	-	-	1411	-	-
Mov Cap-2 Maneuver	671	0	-	-	-	-	-	-	-
Stage 1	860	0	-	-	-	-	-	-	-
Stage 2	875	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.3	0	0.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	671	885	1411	-
HCM Lane V/C Ratio	-	-	0.359	0.092	0.003	-
HCM Lane LOS	-	-	B	A	A	A
HCM 95th %tile Q(veh)	-	-	1.6	0.3	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	133	36	34	25	42	168
Future Volume (Veh/h)	133	36	34	25	42	168
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.75	0.75	0.87	0.87	0.92	0.92
Hourly flow rate (vph)	177	48	39	29	46	183
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	140	92	92	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	140	92	92	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	77	94	95	97	97	
cM capacity (veh/h)	760	775	775	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	225	68	46	183
Volume Left	177	0	46	0
Volume Right	0	29	0	183
cSH	763	883	1623	1700
Volume to Capacity	0.29	0.08	0.03	0.11
Queue Length 95th (ft)	31	6	2	0
Control Delay (s)	11.7	9.4	7.3	0.0
Lane LOS	B	A	A	
Approach Delay (s)	11.7	9.4	1.5	
Approach LOS	B	A		

Intersection Summary			
Average Delay	6.9		
Intersection Capacity Utilization	25.9%	ICU Level of Service	A

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	57	3	10	28	313	0	0	76	216
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1			Major1			Major2		
Conflicting Flow All	684	817	386	361	0	-	-	-	0
Stage 1	456	456	-	-	-	-	-	-	-
Stage 2	228	361	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	414	311	662	1198	-	0	0	-	-
Stage 1	638	568	-	-	-	0	0	-	-
Stage 2	810	626	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	399	0	662	1198	-	-	-	-	-
Mov Cap-2 Maneuver	399	0	-	-	-	-	-	-	-
Stage 1	614	0	-	-	-	-	-	-	-
Stage 2	810	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.2	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1198	-	399	662	-	-
HCM Lane V/C Ratio	0.029	-	0.196	0.027	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.7	0.1	-	-

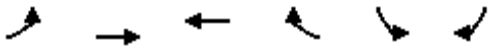
Intersection	
Int Delay, s/veh	6.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	210	1	154	0	0	0	0	114	62	6	128	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	370	406	183	-	0	0	205	0	0
Stage 1	201	201	-	-	-	-	-	-	-
Stage 2	169	205	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	630	534	859	0	-	-	1366	-	0
Stage 1	833	735	-	0	-	-	-	-	0
Stage 2	861	732	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	626	0	859	-	-	-	1366	-	-
Mov Cap-2 Maneuver	626	0	-	-	-	-	-	-	-
Stage 1	833	0	-	-	-	-	-	-	-
Stage 2	855	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.4	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	626	859	1366	-
HCM Lane V/C Ratio	-	-	0.373	0.2	0.006	-
HCM Lane LOS	-	-	B	B	A	A
HCM 95th %tile Q(veh)	-	-	1.7	0.7	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	160	152	44	18	101	181
Future Volume (Veh/h)	160	152	44	18	101	181
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.91	0.91	0.78	0.78	0.88	0.88
Hourly flow rate (vph)	176	167	56	23	115	206
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	281	230	230	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	281	230	230	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	70	73	91	98	93	
cM capacity (veh/h)	579	622	622	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	343	79	115	206
Volume Left	176	0	115	0
Volume Right	0	23	0	206
cSH	599	711	1623	1700
Volume to Capacity	0.57	0.11	0.07	0.12
Queue Length 95th (ft)	90	9	6	0
Control Delay (s)	18.7	10.7	7.4	0.0
Lane LOS	C	B	A	
Approach Delay (s)	18.7	10.7	2.6	
Approach LOS	C	B		

Intersection Summary			
Average Delay	10.9		
Intersection Capacity Utilization	35.8%	ICU Level of Service	A

APPENDIX C

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS – OPENING YEAR WITHOUT PROJECT

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	79	3	107	63	231	0	0	64	120
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1		Major1			Major2			
Conflicting Flow All	620	692	304	222	0	-	-	-	0
Stage 1	470	470	-	-	-	-	-	-	-
Stage 2	150	222	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	452	367	736	1347	-	0	0	-	-
Stage 1	629	560	-	-	-	0	0	-	-
Stage 2	878	720	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	419	0	736	1347	-	-	-	-	-
Mov Cap-2 Maneuver	419	0	-	-	-	-	-	-	-
Stage 1	582	0	-	-	-	-	-	-	-
Stage 2	878	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13.2	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1347	-	419	736	-	-
HCM Lane V/C Ratio	0.062	-	0.233	0.185	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.9	0.7	-	-

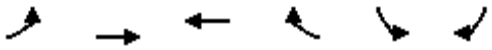
Intersection												
Int Delay, s/veh	6.4											

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	163	1	54	0	0	0	0	120	33	4	148	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	339	358	170	-	0	0	178	0	0
Stage 1	180	180	-	-	-	-	-	-	-
Stage 2	159	178	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	657	568	874	0	-	-	1398	-	0
Stage 1	851	750	-	0	-	-	-	-	0
Stage 2	870	752	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	654	0	874	-	-	-	1398	-	-
Mov Cap-2 Maneuver	654	0	-	-	-	-	-	-	-
Stage 1	851	0	-	-	-	-	-	-	-
Stage 2	867	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.9	0	0.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	654	874	1398	-
HCM Lane V/C Ratio	-	-	0.389	0.098	0.003	-
HCM Lane LOS	-	-	B	A	A	A
HCM 95th %tile Q(veh)	-	-	1.8	0.3	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	141	38	36	27	45	178
Future Volume (Veh/h)	141	38	36	27	45	178
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.75	0.75	0.87	0.87	0.92	0.92
Hourly flow rate (vph)	188	51	41	31	49	193
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	150	98	98	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	150	98	98	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	75	93	95	97	97	
cM capacity (veh/h)	745	768	768	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	239	72	49	193
Volume Left	188	0	49	0
Volume Right	0	31	0	193
cSH	750	879	1623	1700
Volume to Capacity	0.32	0.08	0.03	0.11
Queue Length 95th (ft)	34	7	2	0
Control Delay (s)	12.0	9.5	7.3	0.0
Lane LOS	B	A	A	
Approach Delay (s)	12.0	9.5	1.5	
Approach LOS	B	A		

Intersection Summary				
Average Delay	7.1			
Intersection Capacity Utilization	26.5%	ICU Level of Service	A	

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	60	3	11	30	332	0	0	81	229
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1		Major1			Major2			
Conflicting Flow All	726	867	410	383	0	-	-	-	0
Stage 1	484	484	-	-	-	-	-	-	-
Stage 2	242	383	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	391	291	642	1175	-	0	0	-	-
Stage 1	620	552	-	-	-	0	0	-	-
Stage 2	798	612	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	375	0	642	1175	-	-	-	-	-
Mov Cap-2 Maneuver	375	0	-	-	-	-	-	-	-
Stage 1	595	0	-	-	-	-	-	-	-
Stage 2	798	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.1	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1175	-	375	642	-	-
HCM Lane V/C Ratio	0.032	-	0.219	0.03	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.8	0.1	-	-

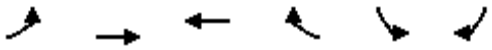
Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	223	1	163	0	0	0	0	121	66	6	136	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	392	430	194	-	0	0	218	0	0
Stage 1	212	212	-	-	-	-	-	-	-
Stage 2	180	218	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	612	518	847	0	-	-	1352	-	0
Stage 1	823	727	-	0	-	-	-	-	0
Stage 2	851	723	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	608	0	847	-	-	-	1352	-	-
Mov Cap-2 Maneuver	608	0	-	-	-	-	-	-	-
Stage 1	823	0	-	-	-	-	-	-	-
Stage 2	845	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	608	847	1352	-
HCM Lane V/C Ratio	-	-	0.408	0.215	0.006	-
HCM Lane LOS	-	-	B	B	A	A
HCM 95th %tile Q(veh)	-	-	2	0.8	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	170	161	47	19	107	192
Future Volume (Veh/h)	170	161	47	19	107	192
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.91	0.91	0.78	0.78	0.88	0.88
Hourly flow rate (vph)	187	177	60	24	122	218
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	298	244	244	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	298	244	244	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	66	71	90	98	92	
cM capacity (veh/h)	558	608	608	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	364	84	122	218
Volume Left	187	0	122	0
Volume Right	0	24	0	218
cSH	581	696	1623	1700
Volume to Capacity	0.63	0.12	0.08	0.13
Queue Length 95th (ft)	108	10	6	0
Control Delay (s)	21.0	10.9	7.4	0.0
Lane LOS	C	B	A	
Approach Delay (s)	21.0	10.9	2.7	
Approach LOS	C	B		

Intersection Summary			
Average Delay	12.0		
Intersection Capacity Utilization	37.1%	ICU Level of Service	A

APPENDIX D

PEAK HOUR INTERSECTION ANALYSIS WORKSHEETS - OPENING YEAR + PROJECT

Intersection	
Int Delay, s/veh	4.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	79	3	107	63	232	0	0	66	120
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1		Major1			Major2			
Conflicting Flow All	624	696	305	225	0	-	-	-	0
Stage 1	471	471	-	-	-	-	-	-	-
Stage 2	153	225	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	449	365	735	1344	-	0	0	-	-
Stage 1	628	560	-	-	-	0	0	-	-
Stage 2	875	718	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	416	0	735	1344	-	-	-	-	-
Mov Cap-2 Maneuver	416	0	-	-	-	-	-	-	-
Stage 1	582	0	-	-	-	-	-	-	-
Stage 2	875	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13.2	1.7	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1344	-	416	735	-	-
HCM Lane V/C Ratio	0.062	-	0.234	0.185	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.2	-	0.9	0.7	-	-

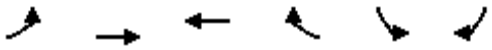
Intersection	
Int Delay, s/veh	6.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	163	1	55	0	0	0	0	121	33	4	150	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	342	361	172	-	0	0	179	0	0
Stage 1	182	182	-	-	-	-	-	-	-
Stage 2	160	179	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	654	566	872	0	-	-	1397	-	0
Stage 1	849	749	-	0	-	-	-	-	0
Stage 2	869	751	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	651	0	872	-	-	-	1397	-	-
Mov Cap-2 Maneuver	651	0	-	-	-	-	-	-	-
Stage 1	849	0	-	-	-	-	-	-	-
Stage 2	866	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	12.9	0	0.2
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	651	872	1397	-
HCM Lane V/C Ratio	-	-	0.391	0.1	0.003	-
HCM Lane LOS	-	-	B	A	A	A
HCM 95th %tile Q(veh)	-	-	1.9	0.3	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	141	38	36	28	48	178
Future Volume (Veh/h)	141	38	36	28	48	178
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.75	0.75	0.87	0.87	0.92	0.92
Hourly flow rate (vph)	188	51	41	32	52	193
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	156	104	104	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	156	104	104	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	74	93	95	97	97	
cM capacity (veh/h)	735	761	761	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	239	73	52	193
Volume Left	188	0	52	0
Volume Right	0	32	0	193
cSH	741	876	1623	1700
Volume to Capacity	0.32	0.08	0.03	0.11
Queue Length 95th (ft)	35	7	2	0
Control Delay (s)	12.2	9.5	7.3	0.0
Lane LOS	B	A	A	
Approach Delay (s)	12.2	9.5	1.5	
Approach LOS	B	A		

Intersection Summary			
Average Delay	7.1		
Intersection Capacity Utilization	26.5%	ICU Level of Service	A

Intersection	
Int Delay, s/veh	0.2

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Future Vol, veh/h	83	3	1	63	1	1
Sign Control	Free	Free	Free	Free	Stop	Stop
Storage Length	-	-	-	-	0	-
Grade, %	0	-	-	0	0	-
Heavy Vehicles, %	2	2	2	2	2	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	93	0	162	92
Stage 1	-	-	-	-	92	-
Stage 2	-	-	-	-	70	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1501	-	829	965
Stage 1	-	-	-	-	932	-
Stage 2	-	-	-	-	953	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1501	-	828	965
Mov Cap-2 Maneuver	-	-	-	-	828	-
Stage 1	-	-	-	-	932	-
Stage 2	-	-	-	-	952	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.1	9.1
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	891	-	-	1501	-
HCM Lane V/C Ratio	0.002	-	-	0.001	-
HCM Lane LOS	A	-	-	A	A
HCM 95th %tile Q(veh)	0	-	-	0	-

Intersection	
Int Delay, s/veh	2.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	0	0	0	60	3	11	31	337	0	0	85	229
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	-	-	-	50	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor1		Major1			Major2			
Conflicting Flow All	739	880	416	388	0	-	-	-	0
Stage 1	492	492	-	-	-	-	-	-	-
Stage 2	247	388	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	4.12	-	-	-	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	2.218	-	-	-	-	-
Pot Cap-1 Maneuver	385	286	637	1170	-	0	0	-	-
Stage 1	615	548	-	-	-	0	0	-	-
Stage 2	794	609	-	-	-	0	0	-	-
Platoon blocked, %					-			-	-
Mov Cap-1 Maneuver	369	0	637	1170	-	-	-	-	-
Mov Cap-2 Maneuver	369	0	-	-	-	-	-	-	-
Stage 1	589	0	-	-	-	-	-	-	-
Stage 2	794	0	-	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	16.2	0.7	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBL	NBT	WBLn1	WBLn2	SBT	SBR
Capacity (veh/h)	1170	-	369	637	-	-
HCM Lane V/C Ratio	0.033	-	0.223	0.03	-	-
HCM Lane LOS	A	A	C	B	-	-
HCM 95th %tile Q(veh)	0.1	-	0.8	0.1	-	-

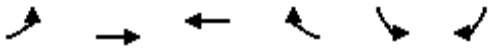
Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Future Vol, veh/h	223	1	164	0	0	0	0	127	67	6	140	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
Storage Length	40	-	-	-	-	-	-	-	-	-	-	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2

Major/Minor	Minor2			Major1			Major2		
Conflicting Flow All	405	444	200	-	0	0	226	0	0
Stage 1	218	218	-	-	-	-	-	-	-
Stage 2	187	226	-	-	-	-	-	-	-
Critical Hdwy	6.42	6.52	6.22	-	-	-	4.12	-	-
Critical Hdwy Stg 1	5.42	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	5.42	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	-	-	-	2.218	-	-
Pot Cap-1 Maneuver	602	508	841	0	-	-	1342	-	0
Stage 1	818	723	-	0	-	-	-	-	0
Stage 2	845	717	-	0	-	-	-	-	0
Platoon blocked, %					-	-		-	
Mov Cap-1 Maneuver	597	0	841	-	-	-	1342	-	-
Mov Cap-2 Maneuver	597	0	-	-	-	-	-	-	-
Stage 1	818	0	-	-	-	-	-	-	-
Stage 2	838	0	-	-	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	13.2	0	0.3
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	EBLn1	EBLn2	SBL	SBT
Capacity (veh/h)	-	-	597	841	1342	-
HCM Lane V/C Ratio	-	-	0.415	0.218	0.006	-
HCM Lane LOS	-	-	C	B	A	A
HCM 95th %tile Q(veh)	-	-	2	0.8	0	-



Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	170	161	47	26	112	192
Future Volume (Veh/h)	170	161	47	26	112	192
Sign Control		Stop	Stop		Free	
Grade		0%	0%		0%	
Peak Hour Factor	0.91	0.91	0.78	0.78	0.88	0.88
Hourly flow rate (vph)	187	177	63	33	127	218
Pedestrians						
Lane Width (ft)						
Walking Speed (ft/s)						
Percent Blockage						
Right turn flare (veh)						
Median type					None	
Median storage veh)						
Upstream signal (ft)						
pX, platoon unblocked						
vC, conflicting volume	318	254	254	0	0	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	318	254	254	0	0	
tC, single (s)	7.1	6.5	6.5	6.2	4.1	
tC, 2 stage (s)						
tF (s)	3.5	4.0	4.0	3.3	2.2	
p0 queue free %	65	70	89	97	92	
cM capacity (veh/h)	532	599	599	1085	1623	

Direction, Lane #	EB 1	WB 1	SB 1	SB 2
Volume Total	364	96	127	218
Volume Left	187	0	127	0
Volume Right	0	33	0	218
cSH	563	708	1623	1700
Volume to Capacity	0.65	0.14	0.08	0.13
Queue Length 95th (ft)	116	12	6	0
Control Delay (s)	22.4	10.9	7.4	0.0
Lane LOS	C	B	A	
Approach Delay (s)	22.4	10.9	2.7	
Approach LOS	C	B		

Intersection Summary			
Average Delay	12.6		
Intersection Capacity Utilization	37.4%	ICU Level of Service	A

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Future Vol, veh/h	268	6	2	66	7	3
Sign Control	Free	Free	Free	Free	Stop	Stop
Storage Length	-	-	-	-	0	-
Grade, %	0	-	-	0	0	-
Heavy Vehicles, %	2	2	2	2	2	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	298	0	371	295
Stage 1	-	-	-	-	295	-
Stage 2	-	-	-	-	76	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1263	-	630	744
Stage 1	-	-	-	-	755	-
Stage 2	-	-	-	-	947	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1263	-	629	744
Mov Cap-2 Maneuver	-	-	-	-	629	-
Stage 1	-	-	-	-	755	-
Stage 2	-	-	-	-	945	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.2	10.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	660	-	-	1263	-
HCM Lane V/C Ratio	0.016	-	-	0.002	-
HCM Lane LOS	B	-	-	A	A
HCM 95th %tile Q(veh)	0.1	-	-	0	-

APPENDIX E

BUS ROUTE SCHEDULES

Transit Fare / *Tarifas*

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MTS sdmts.com

MTS Security *MTS Seguridad*	**619-595-4960**
MTS Information & Trip Planning *MTS Información y planeo de viaje*	**619-233-3004**
Customer Service / Suggestions *Servicio al cliente / Sugerencias*	**619-557-4555**
Lost and Found *Objetos extraviados*	**619-233-3004**
Transit Store 12th & Imperial Transit Center M–F / *L-V* 8am–5pm	**619-234-1060**
TTY/TDD (teletype for hearing impaired) *Teletipo para sordos*	**619-234-5005** **888-722-4889**

Buses on all MTS routes are accessible via lift or ramp.
Autobuses en todas las rutas de MTS son accesibles mediante un ascensor o rampa.

Alternative formats available upon request. Call: (619) 231-1466.
Formato alternativo disponible al preguntar. Llamar: (619) 231-1466.

Effective June 30, 2023

838

East County Square ↔ Viejas
via Alpine

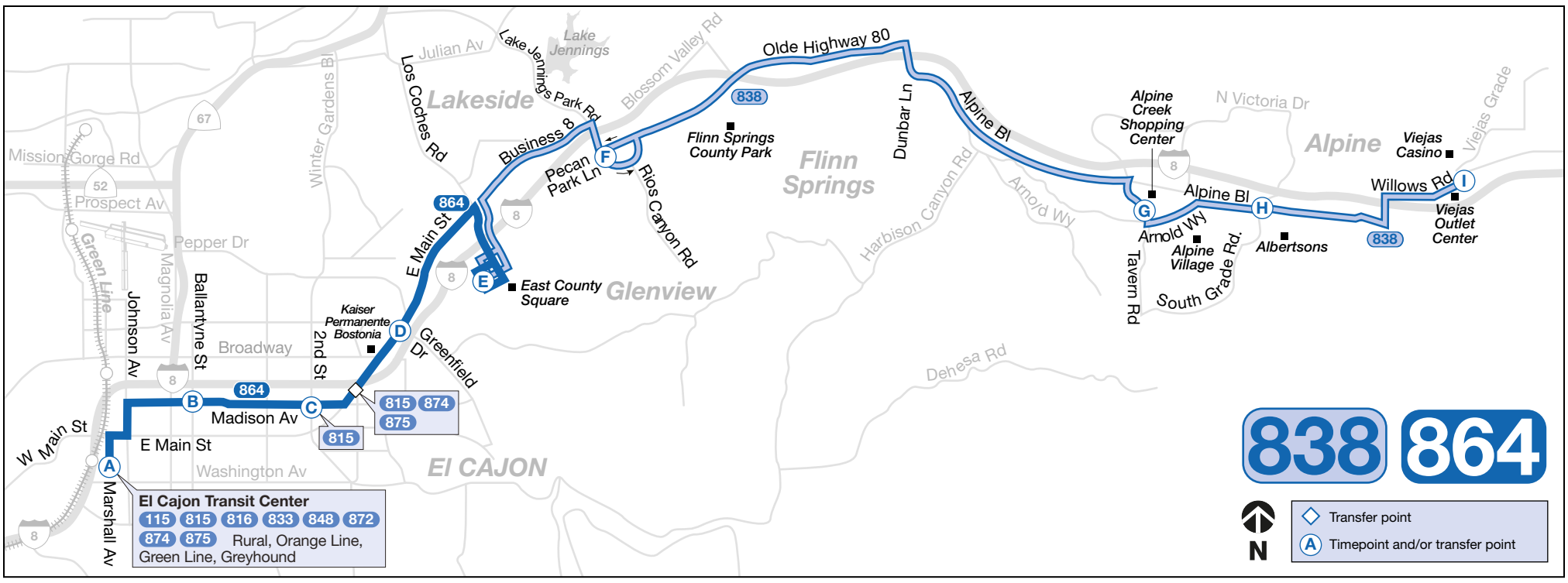
864

El Cajon Transit Center ↔ East County Square
via Madison Avenue

Destinations — **Bus Routes**
- Alpine Creek Shopping Center (838)
- East County Square
- Kaiser Permanente Bostonia (864)
- Viejas Casino & Outlets (838)

Trolley Connections
- El Cajon

Subject to change without notice
Sujeto a cambios sin previo aviso



838 Monday through Friday • *lunes a viernes*

East County Square → Viejas

E East County Square **DEPART**	F Old Hwy. 80 & Pecan Park Ln.	G Tavern Rd. & Arnold Wy.	H Alpine Bl. & South Grade Rd.	I Viejas **ARRIVE**
5:49a	5:56a	6:11a	6:16a	6:23a
6:51	6:58	7:13	7:18	7:25
7:52	8:00	8:16	8:22	8:29
8:54	9:02	9:18	9:24	9:31
9:54	10:02	10:18	10:24	10:31
10:57	11:05	11:21	11:27	11:34
11:57	**12:05p**	**12:21p**	**12:27p**	**12:34p**
12:57p	**1:05**	**1:21**	**1:27**	**1:34**
1:57	**2:06**	**2:22**	**2:29**	**2:36**
2:57	**3:07**	**3:23**	**3:30**	**3:37**
3:57	**4:07**	**4:23**	**4:30**	**4:37**
4:57	**5:07**	**5:23**	**5:30**	**5:37**
5:57	**6:07**	**6:23**	**6:30**	**6:37**
6:54	**7:03**	**7:19**	**7:25**	**7:32**
7:54	**8:02**	**8:17**	**8:22**	**8:29**

Viejas → East County Square

I Viejas **DEPART**	H Alpine Bl. & South Grade Rd.	G Tavern Rd. & Arnold Wy.	F Old Hwy. 80 & Pecan Park Ln.	E East County Square **ARRIVE**
5:05a	5:10a	5:15a	5:29a	5:39a
6:05	6:10	6:16	6:31	6:42
7:05	7:10	7:16	7:31	7:42
8:07	8:12	8:18	8:33	8:44
9:07	9:12	9:18	9:33	9:44
10:07	10:12	10:18	10:33	10:44
11:07	11:12	11:18	11:33	11:44
12:05p	**12:10p**	**12:17p**	**12:32p**	**12:44p**
1:05	**1:10**	**1:17**	**1:32**	**1:44**
2:05	**2:10**	**2:17**	**2:32**	**2:44**
3:05	**3:10**	**3:17**	**3:32**	**3:44**
4:05	**4:10**	**4:17**	**4:32**	**4:44**
5:05	**5:10**	**5:17**	**5:32**	**5:44**
6:05	**6:10**	**6:16**	**6:31**	**6:42**
7:05	**7:10**	**7:16**	**7:31**	**7:42**
8:08	**8:13**	**8:18**	**8:32**	**8:42**

838 Saturday and Sunday • *sábado y domingo*

East County Square → Viejas

E East County Square **DEPART**	F Old Hwy. 80 & Pecan Park Ln.	G Tavern Rd. & Arnold Wy.	H Alpine Bl. & South Grade Rd.	I Viejas **ARRIVE**
6:51a	6:58a	7:13a	7:18a	7:25a
7:52	8:00	8:15	8:20	8:27
8:54	9:02	9:18	9:24	9:31
9:54	10:02	10:18	10:24	10:31
10:57	11:05	11:21	11:27	11:34
11:57	**12:05p**	**12:21p**	**12:27p**	**12:34p**
12:57p	**1:05**	**1:21**	**1:27**	**1:34**
1:57	**2:06**	**2:22**	**2:29**	**2:36**
2:57	**3:06**	**3:22**	**3:29**	**3:36**
3:57	**4:06**	**4:22**	**4:29**	**4:36**
4:57	**5:06**	**5:22**	**5:29**	**5:36**
5:57	**6:06**	**6:22**	**6:29**	**6:36**
6:54	**7:02**	**7:18**	**7:24**	**7:31**

Viejas → East County Square

I Viejas **DEPART**	H Alpine Bl. & South Grade Rd.	G Tavern Rd. & Arnold Wy.	F Old Hwy. 80 & Pecan Park Ln.	E East County Square **ARRIVE**
7:05a	7:10a	7:16a	7:31a	7:42a
8:07	8:12	8:18	8:33	8:44
9:07	9:12	9:18	9:33	9:44
10:07	10:12	10:18	10:33	10:44
11:07	11:12	11:18	11:33	11:44
12:05p	**12:10p**	**12:17p**	**12:32p**	**12:44p**
1:05	**1:10**	**1:17**	**1:32**	**1:44**
2:05	**2:10**	**2:17**	**2:32**	**2:44**
3:05	**3:10**	**3:17**	**3:32**	**3:44**
4:05	**4:10**	**4:17**	**4:32**	**4:44**
5:05	**5:10**	**5:17**	**5:32**	**5:44**
6:05	**6:10**	**6:16**	**6:31**	**6:42**
7:05	**7:10**	**7:16**	**7:31**	**7:42**

A Saturday/Sunday schedule will be operated on the following holidays and observed holidays / *Se operará con horario de sábado/domingo durante los siguientes días festivos y feriados observados*
New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas

864 Monday through Friday • *lunes a viernes*

El Cajon Transit Center → East County Square

A El Cajon Transit Center **DEPART**	B Madison Av. & Ballantyne St.	C Madison Av. & 2nd St.	D E. Main St. & Greenfield Dr.	E East County Square **ARRIVE**
5:11a	5:17a	5:22a	5:28a	5:36a
5:41	5:47	5:52	5:58	6:06
6:11	6:17	6:22	6:28	6:36
6:41	6:48	6:53	7:00	7:08
7:11	7:18	7:23	7:30	7:38
7:41	7:49	7:55	8:02	8:11
8:11	8:19	8:25	8:32	8:41
8:41	8:49	8:55	9:02	9:11
9:11	9:19	9:25	9:32	9:41
9:41	9:49	9:55	10:02	10:11
10:11	10:20	10:26	10:34	10:44
10:41	10:50	10:56	11:04	11:14
11:11	11:20	11:26	11:34	11:44
11:41	11:50	11:56	**12:04p**	**12:14p**
12:11p	**12:20p**	**12:26p**	**12:34**	**12:44**
12:41	**12:50**	**12:56**	**1:04**	**1:14**
1:11	**1:20**	**1:26**	**1:34**	**1:44**
1:41	**1:50**	**1:56**	**2:04**	**2:14**
2:11	**2:20**	**2:26**	**2:34**	**2:44**
2:41	**2:50**	**2:56**	**3:04**	**3:14**
3:11	**3:20**	**3:26**	**3:34**	**3:44**
3:41	**3:50**	**3:56**	**4:04**	**4:14**
4:11	**4:20**	**4:26**	**4:34**	**4:44**
4:41	**4:50**	**4:56**	**5:04**	**5:14**
5:11	**5:20**	**5:26**	**5:34**	**5:44**
5:41	**5:50**	**5:56**	**6:04**	**6:14**
6:11	**6:19**	**6:25**	**6:32**	**6:41**
6:41	**6:49**	**6:55**	**7:02**	**7:11**
7:11	**7:18**	**7:24**	**7:31**	**7:39**
8:11	**8:18**	**8:24**	**8:31**	**8:39**
9:11	**9:18**	**9:23**	**9:29**	**9:37**
10:11	**10:18**	**10:23**	**10:29**	**10:37**

East County Square → El Cajon Transit Center

E East County Square **DEPART**	D E. Main St. & Greenfield Dr.	C Madison Av. & 2nd St.	B Madison Av. & Ballantyne St.	A El Cajon Transit Center **ARRIVE**
—	5:36a	5:41a	5:46a	5:54a
5:59a	6:06	6:11	6:16	6:24
6:26	6:34	6:40	6:46	6:54
6:54	7:03	7:10	7:16	7:24
7:24	7:33	7:40	7:46	7:54
7:54	8:03	8:10	8:16	8:24
8:24	8:33	8:40	8:46	8:54
8:54	9:03	9:10	9:16	9:24
9:24	9:33	9:40	9:46	9:54
9:54	10:03	10:10	10:16	10:24
10:24	10:33	10:40	10:46	10:54
10:54	11:03	11:10	11:16	11:24
11:24	11:33	11:40	11:46	11:54
11:52	**12:01p**	**12:09p**	**12:15p**	**12:24p**
12:22p	**12:31**	**12:39**	**12:45**	**12:54**
12:52	**1:01**	**1:09**	**1:15**	**1:24**
1:22	**1:31**	**1:39**	**1:45**	**1:54**
1:52	**2:01**	**2:09**	**2:15**	**2:24**
2:22	**2:31**	**2:39**	**2:45**	**2:54**
2:52	**3:01**	**3:09**	**3:15**	**3:24**
3:22	**3:31**	**3:39**	**3:45**	**3:54**
3:52	**4:01**	**4:09**	**4:15**	**4:24**
4:22	**4:31**	**4:39**	**4:45**	**4:54**
4:52	**5:01**	**5:09**	**5:15**	**5:24**
5:22	**5:31**	**5:39**	**5:45**	**5:54**
5:52	**6:01**	**6:09**	**6:15**	**6:24**
6:25	**6:33**	**6:40**	**6:46**	**6:54**
6:55	**7:03**	**7:10**	**7:16**	**7:24**
7:55	**8:03**	**8:10**	**8:16**	**8:24**
8:57	**9:04**	**9:10**	**9:15**	**9:22**
9:57	**10:04**	**10:10**	**10:15**	**10:22**

864 Saturday • *sábado*

El Cajon Transit Center → East County Square

A El Cajon Transit Center **DEPART**	B Madison Av. & Ballantyne St.	C Madison Av. & 2nd St.	D E. Main St. & Greenfield Dr.	E East County Square **ARRIVE**
6:11a	6:18a	6:23a	6:29a	6:36a
7:11	7:18	7:23	7:30	7:38
8:11	8:19	8:25	8:32	8:41
9:11	9:19	9:25	9:32	9:41
10:11	10:20	10:26	10:33	10:43
11:11	11:20	11:26	11:33	11:43
12:11p	**12:20p**	**12:26p**	**12:33p**	**12:43p**
1:11	**1:20**	**1:26**	**1:33**	**1:43**
2:11	**2:20**	**2:26**	**2:33**	**2:43**
3:11	**3:20**	**3:26**	**3:33**	**3:43**
4:11	**4:20**	**4:26**	**4:33**	**4:43**
5:11	**5:20**	**5:26**	**5:33**	**5:43**
6:11	**6:19**	**6:25**	**6:32**	**6:41**
7:11	**7:18**	**7:24**	**7:31**	**7:39**
8:11	**8:18**	**8:24**	**8:31**	**8:39**
9:11	**9:18**	**9:23**	**9:29**	**9:37**

East County Square → El Cajon Transit Center

E East County Square **DEPART**	D E. Main St. & Greenfield Dr.	C Madison Av. & 2nd St.	B Madison Av. & Ballantyne St.	A El Cajon Transit Center **ARRIVE**
—	6:04a	6:10a	6:16a	6:24a
6:56a	7:04	7:10	7:16	7:24
7:54	8:03	8:10	8:16	8:24
8:54	9:03	9:10	9:16	9:24
9:54	10:03	10:10	10:16	10:24
10:54	11:03	11:10	11:16	11:24
11:54	**12:03p**	**12:10p**	**12:16p**	**12:24p**
12:54p	**1:03**	**1:10**	**1:16**	**1:24**
1:54	**2:03**	**2:10**	**2:16**	**2:24**
2:54	**3:03**	**3:10**	**3:16**	**3:24**
3:54	**4:03**	**4:10**	**4:16**	**4:24**
4:54	**5:03**	**5:10**	**5:16**	**5:24**
5:54	**6:03**	**6:10**	**6:16**	**6:24**
6:56	**7:04**	**7:10**	**7:16**	**7:24**
7:56	**8:04**	**8:10**	**8:16**	**8:24**
8:57	**9:04**	**9:10**	**9:15**	**9:22**
9:57	**10:04**	**10:10**	**10:15**	**10:22**

864 Sunday • *domingo*

El Cajon Transit Center → East County Square

A El Cajon Transit Center **DEPART**	B Madison Av. & Ballantyne St.	C Madison Av. & 2nd St.	D E. Main St. & Greenfield Dr.	E East County Square **ARRIVE**
6:11a	6:18a	6:23a	6:29a	6:36a
7:11	7:18	7:23	7:30	7:38
8:11	8:19	8:25	8:32	8:41
9:11	9:19	9:25	9:32	9:41
10:11	10:20	10:26	10:33	10:43
11:11	11:20	11:26	11:33	11:43
12:11p	**12:20p**	**12:26p**	**12:33p**	**12:43p**
1:11	**1:20**	**1:26**	**1:33**	**1:43**
2:11	**2:20**	**2:26**	**2:33**	**2:43**
3:11	**3:20**	**3:26**	**3:33**	**3:43**
4:11	**4:20**	**4:26**	**4:33**	**4:43**
5:11	**5:20**	**5:26**	**5:33**	**5:43**
6:11	**6:19**	**6:25**	**6:32**	**6:41**
7:11	**7:18**	**7:24**	**7:31**	**7:39**
8:11	**8:18**	**8:24**	**8:31**	**8:39**

East County Square → El Cajon Transit Center

E East County Square **DEPART**	D E. Main St. & Greenfield Dr.	C Madison Av. & 2nd St.	B Madison Av. & Ballantyne St.	A El Cajon Transit Center **ARRIVE**
—	6:04a	6:10a	6:16a	6:24a
6:56a	7:04	7:10	7:16	7:24
7:54	8:03	8:10	8:16	8:24
8:54	9:03	9:10	9:16	9:24
9:54	10:03	10:10	10:16	10:24
10:54	11:03	11:10	11:16	11:24
11:54	**12:03p**	**12:10p**	**12:16p**	**12:24p**
12:54p	**1:03**	**1:10**	**1:16**	**1:24**
1:54	**2:03**	**2:10**	**2:16**	**2:24**
2:54	**3:03**	**3:10**	**3:16**	**3:24**
3:54	**4:03**	**4:10**	**4:16**	**4:24**
4:54	**5:03**	**5:10**	**5:16**	**5:24**
5:54	**6:03**	**6:10**	**6:16**	**6:24**
6:56	**7:04**	**7:10**	**7:16**	**7:24**
7:56	**8:04**	**8:10**	**8:16**	**8:24**

A Saturday/Sunday schedule will be operated on the following holidays and observed holidays / *Se operará con horario de sábado/domingo durante los siguientes días festivos y feriados observados*
New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, Christmas

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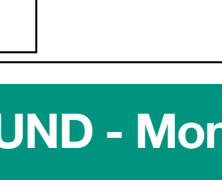

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Effective September 3, 2023

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Bus Route

888 Jacumba Hot Springs ↔ El Cajon via Alpine

891 Borrego Springs ↔ El Cajon via Shelter Valley / Ramona

892 Borrego Springs ↔ El Cajon via Ranchita / Ramona

894 Morena Village ↔ El Cajon via Tecate / Campo

Trolley Connections
• El Cajon

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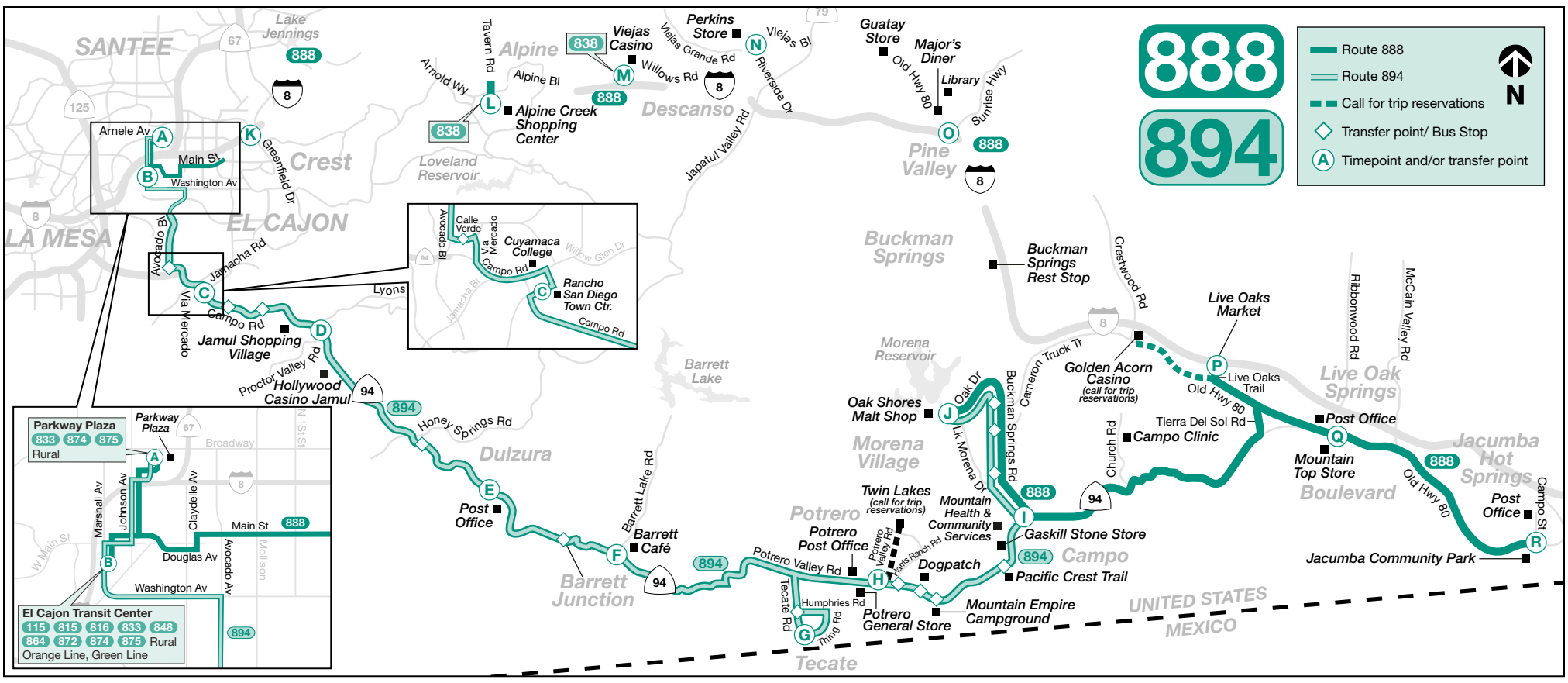


888
894

- Route 888
- Route 894
- Call for trip reservations
- Transfer point/ Bus Stop
- A Timepoint and/or transfer point

N

888 WESTBOUND - Monday and Friday only • *solo lunes y viernes*

Jacumba → El Cajon

R Jacumba Hot Springs - Old Hwy. 80 & Campo St **DEPART**	Q Boulevard - 39335 Old Hwy. 80	P Live Oak Springs - Royal Rd (L.O. Market)	I Campo - Cameron Corners	J Lake Morena (Malt Shop)	O Pine Valley - 28870 Old Hwy. 80 (Major's Diner)	N Descanso - Viejas Bl. & Riverside Dr. (Perkin's Store)	M Viejas Casino - Willows Rd.	L Alpine Creek Shopping Ctr. - Arnold Way & Tavern Rd.	K El Cajon - E. Main St. & Greenfield Dr.	B El Cajon Transit Center	A Parkway Plaza **ARRIVE**
9:40a	9:50a	10:00a	10:30a	10:40a	11:00a	11:17a	11:24a	11:30a	11:45a	**12:00p**	**12:10p**

888 EASTBOUND - Monday and Friday only • *solo lunes y viernes*

El Cajon → Jacumba

A Parkway Plaza **DEPART**	B El Cajon Transit Center	K El Cajon - E. Main St. & Greenfield Dr.	L Alpine Creek Shopping Ctr. - Arnold Way & Tavern Rd.	M Viejas Casino - Willows Rd.	N Descanso - Viejas Bl. & Riverside Dr. (Perkin's Store)	O Pine Valley - 28870 Old Hwy. 80 (Major's Diner)	J Lake Morena (Malt Shop)	I Campo - Cameron Corners	P Live Oak Springs - Royal Rd (L.O. Market)	Q Boulevard - 39335 Old Hwy. 80	R Jacumba Hot Springs -Old Hwy. 80 & Campo St **ARRIVE**
4:10p	**4:20p**	**4:36p**	**4:54p**	**5:02p**	**5:12p**	**5:26p**	**5:46p**	**5:57p**	**6:21p**	**6:28p**	**6:38p**

894 WESTBOUND - Monday through Friday only • *lunes a viernes*

Morena Village → El Cajon

J Lake Morena (Malt Shop) **DEPART**	I Campo - Cameron Corners	H Potrero (Potrero Canyon Park)	G Tecate - Tecate Rd. & Thing Rd.	F Barrett Junction - Hwy. 94 & Barrett Lake Rd.	E Dulzura	D Jamul (AM/PM Mini Mart)	C Rancho San Diego Town Center	B El Cajon Transit Center	A Parkway Plaza **ARRIVE**
—	5:39a	6:00a	6:17a	6:26a	6:35a	6:55a	7:06a	7:27a	7:37a
6:42a	6:54	7:15	7:32	7:41	7:50	8:10	8:21	8:42	8:52
—	10:54	11:15	11:30	11:39	11:48	**12:06p**	**12:17p**	**12:38p**	**12:48p**
—	—	—	**3:30p**	**3:39p**	**3:48p**	**4:06**	**4:17**	**4:38**	**4:48**

894 EASTBOUND - Monday through Friday only • *lunes a viernes*

El Cajon → Morena Village

A Parkway Plaza **DEPART**	B El Cajon Transit Center	C Rancho San Diego Town Center	D Jamul (AM/PM Mini Mart)	E Dulzura	F Barrett Junction - Hwy. 94 & Barrett Lake Rd.	G Tecate - Tecate Rd. & Thing Rd.	H Potrero (Potrero Canyon Park)	I Campo - Cameron Corners	J Lake Morena (Malt Shop) **ARRIVE**
8:21a	8:30a	8:49a	8:58a	9:16a	9:25a	9:38a	9:50a	10:12a	—
11:36	11:45	**12:04p**	**12:13p**	**12:31p**	**12:40p**	**12:53p**	—	—	—
3:18p	**3:27p**	**3:47**	**3:57**	**4:15**	**4:24**	**4:39**	**4:53p**	**5:18p**	**5:38p**
—	—	T **4:16**	**4:26**	**4:44**	**4:53**	**5:08**	—	—	—
5:36	**5:45**	**6:05**	**6:15**	**6:33**	**6:42**	**6:55**	**7:08**	**7:30**	—

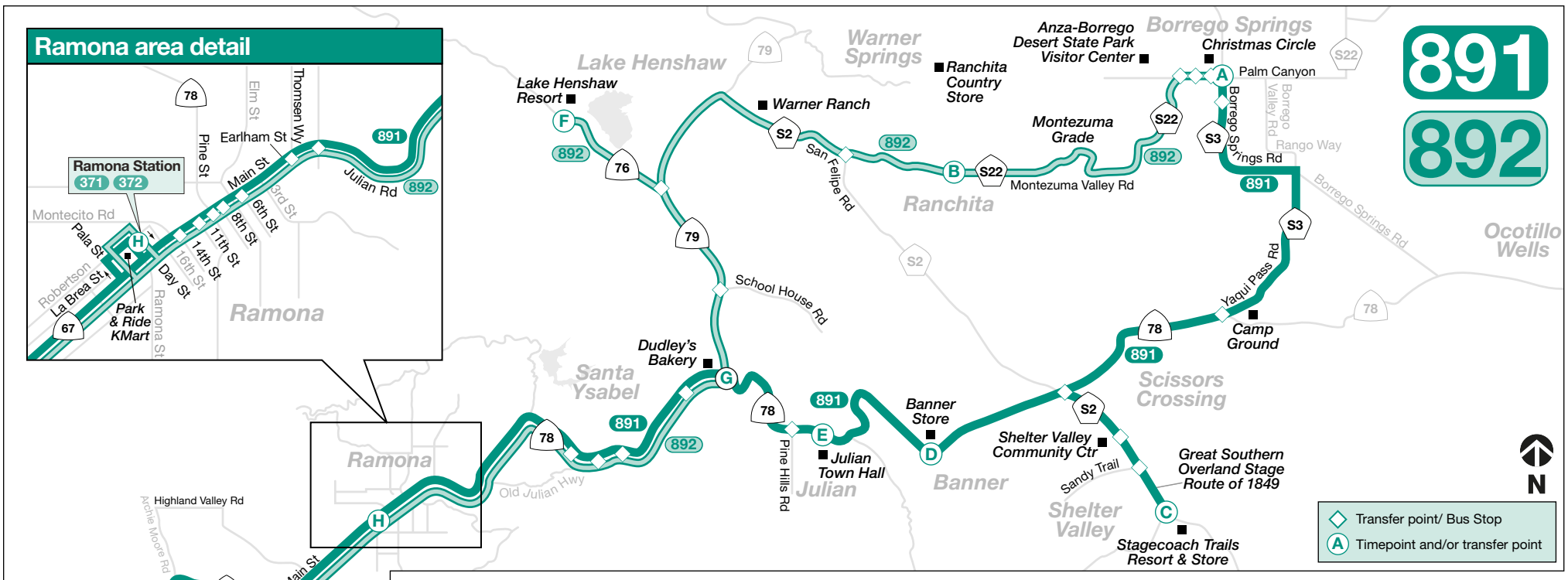
T= Trip departs from westbound Hwy. 94 at Steele Canyon High School at 4:10p when school is in session & classes end at regular bell schedule / **T**= *El viaje sale del 94 en dirección oeste a de Steele Canyon High School a las 4:10 p.m. cuando la escuela está en sesión y las clases terminan en el horario regular*

Holidays are: **New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, & Christmas /** *Los días festivos son:* **Año Nuevo, Presidents' Day, Memorial Day, Día de la Independencia (E.E.U.U.), Labor Day, Día de Acción de Gracias, y Navidad**

Route 888 does not operate on Saturday, Sunday, Tuesday, Wednesday, Thursday, or holidays. When designated holidays are observed on a Monday, Route 888 will operate on the following Tuesday. When designated holidays are observed on a Friday, Route 888 will operate on the previous day, Thursday. / *Ruta 888 no ofrece servicio durante los sábados, domingos, martes, miércoles, jueves, ó durante los días festivos. Cuando los días festivos se observen en un lunes, la ruta 888 operará el día siguiente, martes. Cuando los días festivos se observan en un viernes, la ruta 888 operará el día anterior, jueves.*

Route 894 does not operate on Saturday, Sunday, or on holidays / *Ruta 894 no ofrece servicio durante los sábados, domingos, ó durante los días festivos*

891
892



891/892 WESTBOUND - Thursday or Friday only • *solo jueves o viernes*

Borrego Springs → El Cajon Transit Center

	A	B	C	D	E		F	G	H		I	J	K
	Borrego Springs **DEPART**	Ranchita (Ranchita Realty)	Shelter Valley (Resort)	Banner (Banner Store)	Julian (Town Hall) **ARRIVE**	**DEPART**	Lake Henshaw (Resort)	Santa Ysabel (Dudley's)	Ramona Station **ARRIVE**	**DEPART**	Mapleview & Vine St. (7-Eleven)	Parkway Plaza	El Cajon Transit Center **ARRIVE**
892 Thursday Only	7:50a	8:20a	–	–	–	–	8:40a	9:05a	9:30a	9:45a	10:13a	10:25a	10:35a
891 Friday Only	7:45a	–	8:15a	8:25a	8:40a	8:45a	–	9:05a	9:30a	9:45a	10:13a	10:25a	10:35a

891/892 EASTBOUND - Thursday or Friday only • *solo jueves o viernes*

El Cajon Transit Center → Borrego Springs

	K	J	I	H		G	F	E		D	C	B	A
	El Cajon Transit Center **DEPART**	Parkway Plaza	Mapleview & Vine St. (7-Eleven)	Ramona Station **ARRIVE**	**DEPART**	Santa Ysabel (Dudley's)	Lake Henshaw (Resort)	Julian (Town Hall) **ARRIVE**	**DEPART**	Banner (Banner Store)	Shelter Valley (Resort)	Ranchita (Ranchita Realty)	Borrego Springs **ARRIVE**
892 Thursday Only	2:30p	2:40p	2:55p	3:31p	3:46p	4:16p	4:36p	–	–	–	–	5:06p	5:26p
891 Friday Only	2:30p	2:40p	2:55p	3:31p	3:46p	4:16p	–	4:26p	4:31p	4:41p	4:51p	–	5:21p

Holidays are: **New Year's Day, Presidents' Day, Memorial Day, Independence Day, Labor Day, Thanksgiving, & Christmas** / *Los días festivos son:* ***Año Nuevo, Presidents' Day, Memorial Day, Día de la Independencia (E.E.U.U.), Labor Day, Día de Acción de Gracias, y Navidad***

Routes 891 and 892 do not operate on Saturday, Sunday, Monday, Tuesday, Wednesday, or holidays. When designated holidays are observed on a Thursday, Route 892 will operate on the previous day, Wednesday. When designated holidays are observed on a Friday, Route 891 will operate on the following Monday. / *Las rutas 891 y 892 no ofrecen servicio durante los sábados, domingos, lunes, martes, miércoles, ó durante los días festivos. Cuando los días festivos se observen en un jueves, la ruta 892 operará el día anterior, miércoles. Cuando los días festivos se observen en un viernes, la ruta 891 operará el lunes siguiente.*

Route 888, 891, 892 & 894

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- Please call at least one day in advance to coordinate your trip if you will be traveling with either a wheelchair or bicycle, or would like to schedule an off-route stop or flag stop.
- If you have a reservation for a wheelchair, bicycle, off–route stop, or flag stop, and are unable to travel, please call to cancel as soon as possible.
- Please do not call for a reservation less than two hours before your requested pick-up time.
- You may call for the latest information, including service disruptions.

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- Because of limited spaces, we recommend you call the day before if you will be traveling with either a wheelchair or bicycle. All Rural buses provide wheelchair lift or ramp service.
- Bicycles are welcome at no additional charge. Bicycles may be loaded/unloaded at any stop where it is feasible and safe. Let the bus driver know before you load or unload your bike! MTS and Transdev are not responsible for loss or damage to bicycles.

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- Deviations and Flag Stops Wait Times: For Route 894, we will wait up to five minutes after the scheduled departure time for a person with a reservation. For Routes 888, 891, & 892, we will wait up to ten minutes after the scheduled departure time for a person with a reservation.

Reservaciones
619-401-4500

- *Favor de llamar al menos un día por adelantado para coordinar su viaje si estará viajando con silla de ruedas o bicicleta, o si quisiera reservar una parada no en la ruta o una parada a petición.*
- *Si tiene una reservación para una silla de ruedas, bicicleta, parada no en la ruta, o una parada a petición, favor de llamar para cancelar lo más pronto posible.*
- *Favor de no llamar para una reservación menos de dos horas antes de la hora que va a necesitar nuestro servicio.*
- *Puede llamar para la información más reciente, incluyendo interrupciones de servicio.*

Sillas de ruedas y bicicletas

- *Debido a espacios limitados, recomendamos que llame el día antes si viajara con silla de ruedas o bicicleta. Todos los autobuses rurales ofrecen servicio de rampa o elevador para sillas de ruedas.*
- *Bicicletas son bienvenidas sin costo adicional. Bicicletas pueden subirse/bajarse en cualquier parada donde es factible y seguro. ¡Avísele al chofer antes de cargar o descargar la bicicleta! MTS y Transdev no son responsable por perdidas o daños a las bicicletas.*

Paradas no en la ruta o paradas a petición

- *Es posible que podamos viajar hasta 3/4 milla retirado de la ruta o parar en cualquier ubicación segura a lo largo de la ruta para recogerlo/dejarlo. Estos desvíos se realizarán solo bajo la aprobación de MTS.*
- *Tiempo de espera para las desviaciones y paradas a petición de parte: Para la ruta 894, esperaremos hasta cinco minutos después de la hora de partida indicada para una persona con una reservación. Para las rutas 888, 891 y 892, esperaremos hasta diez minutos después de la hora de partida indicada para una persona con una reservación.*

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Appendix C

Water/Wastewater Demand Assessment

Technical Memorandum

HydroScience
Strategic Water Solutions

Sacramento • Berkeley • San Jose

To: Prepared for: Ewiiaapaayp Band of Kumeyaay Indians

From: Angela Singer, PE
Jory Benitez, EIT
Marc Fernandez, EIT

Subject: Water, Wastewater, and Stormwater Impact Analysis for the Walker, Walker II, and Salerno Parcels

Date: January 11, 2024

Introduction

HydroScience Engineers, Inc. (HydroScience) was retained by Acorn Environmental to prepare a Water, Wastewater, and Stormwater Impact Analysis (Impact Analysis) which will serve as a preliminary evaluation of the technical and engineering issues associated with supplying water and handling wastewater and stormwater from the proposed project. The Project includes the fee-to-trust acquisition of the Walker, Walker II, and Salerno Parcels by the Ewiiaapaayp Band of Kumeyaay Indians (Tribe). A map showing the location of the three parcels is shown in **Figure 1**. The objectives of this Impact Analysis are to:

- Estimate the proposed Project's water demands and wastewater generation rates;
- Assess water supply capacity and water quality based on a desktop review of available data;
- Estimate the storage and pumping capacity needed to reliably serve the project;
- Estimate the wastewater disposal area needed to serve the project;
- Describe the proposed facilities that would be required to supply and store the estimated water needed to serve the Project, and dispose of the estimated amount of wastewater;
- Estimate the volume of runoff up to a 100-year storm condition and provide a recommendation for stormwater Best Management Practices (BMPs).

The objective of this TM is to document the anticipated water demand, water treatment and storage, wastewater generation and disposal strategy, and stormwater runoff and BMP recommendations.

The following sections present a preliminary evaluation and recommendation for water, wastewater, and stormwater facilities for the proposed Project.



0 30' 60'

HydroScience

Figure 1
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Proposed Parcel Map

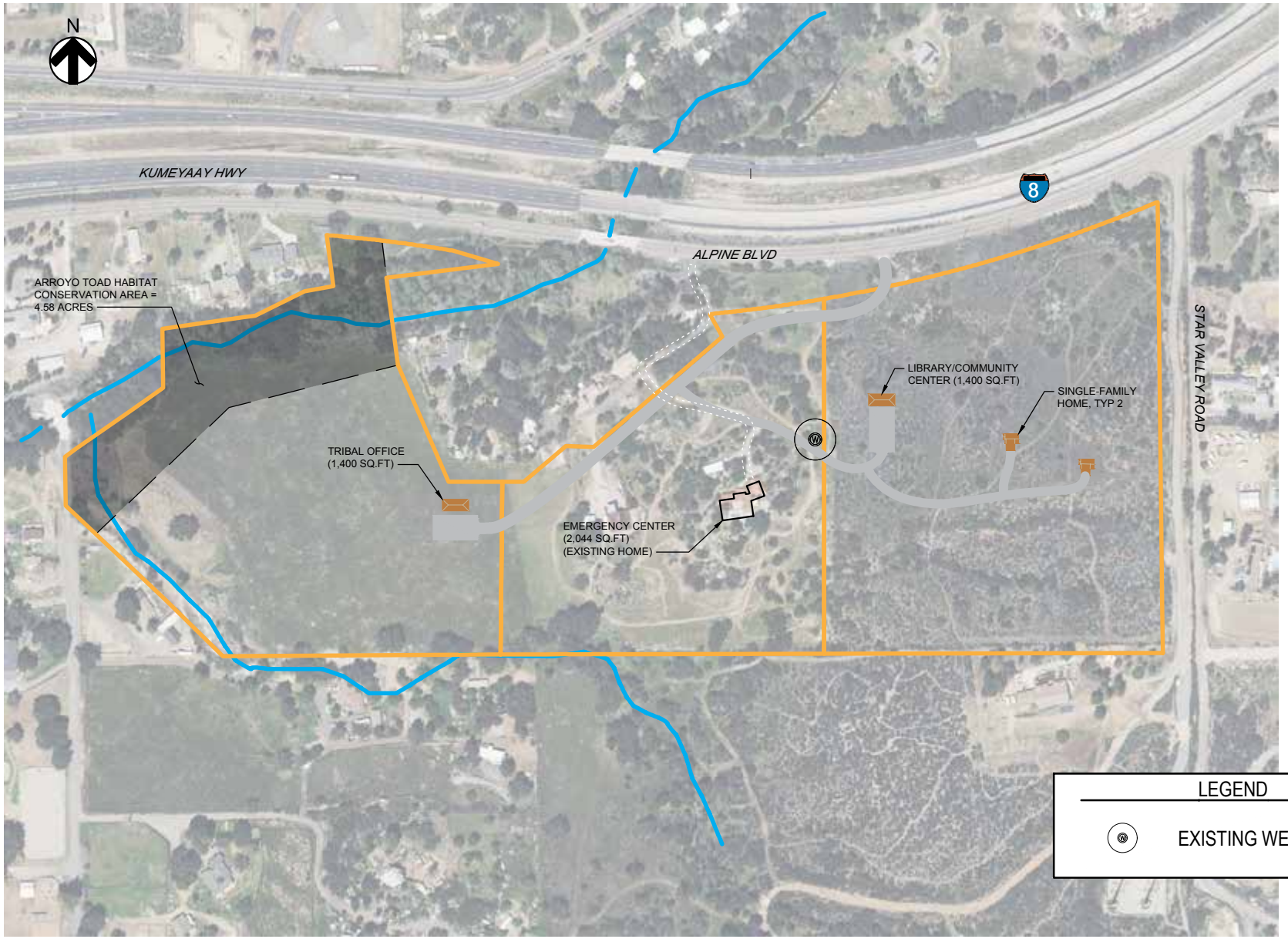
Project Description

The proposed Project includes the fee-to-trust acquisition of three properties located to the south of Interstate 8 (I-8) and Alpine Boulevard between Viejas Creek Trail and Star Valley Road; which include the Walker, Walker II, and Salerno properties. Provided is a brief description of the properties and their proposed use:

- **Walker parcel (APN 4040802600) –** This is the westernmost parcel of the three and is partially bounded by Viejas Creek to the north. It is a 16.68-acre parcel with currently designated land use as "Field Crops" and it's planned land use is designated as "Spaced Rural Residential." This property will host the tribal office, which is currently housed in a triple wide trailer on a leased trust parcel north of I-8. The new tribal office will be 1,440 square feet and include parking. It will be served by septic systems and leach fields. Water will be provided by a groundwater well located on the Walker II parcel.
- **Walker II parcel (APN 4040901300) –** This parcel is located to the east of the Walker parcel and is 13.45 acres. This parcel land use is designated "Spaced Rural Residential." The existing home on this site is currently designated by the Tribe for use as an emergency center, as needed. During events requiring isolation or quarantine, the center can serve as a non-congregating shelter facility for up to two families. During emergency events that do not require isolation, the facility is intended to function as a communications center for approximately two to four Tribal representatives/staff. The center is served by the existing septic system and groundwater well on this parcel. Given that the center would only be occupied as needed during emergency events, no significant changes are anticipated associated with water usage and wastewater treatment and disposal in comparison to the former residential use of the property. While the emergency center is an existing designated use that would not change as a result of the Project, this study nonetheless conservatively assumes an increase in water use and wastewater generation that may be expected should the facility serve as a non-congregating shelter for two families during an emergency event.
- **Salerno parcel (APN 4040900700) –** This is the most eastern parcel of the three. It is an 18.7-acre parcel currently designated by the County as "Vacant and Undeveloped" and its planned use is "Spaced Rural Residential." A new Library Community Center Facility is planned on this site along with two houses. The library facility will be 1,440 square feet and include parking and the two houses will be 720 square feet each (1,440 square feet total). It will be served by septic systems and leach fields. Water will be provided by a groundwater well located on the Walker II parcel.

The Walker parcel also includes a 4.58-acre conservation area for the Arroyo Toad Habitat identified by the Fish and Wildlife Service as an endangered species.

A site plan for the proposed Project is shown in **Figure 2.**



HydroScience

Figure 2
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Proposed Site Plan

Wastewater Flow Estimates

Projected wastewater flows for the proposed project include office/admin, emergency operations center, library community center, and single-family home use. Wastewater flow was estimated based on a rate of 280 gallons per day per equivalent dwelling unit (gpd/EDU) for residential use and approximately 0.1 gpd/square feet (gpd/sf) for all other facilities. The residential wastewater rate was based on the County of San Diego Sanitation District Wastewater Sewer Design Guide (County Design Guide) for residential sewer flows. **Table 1** summarizes the projected wastewater flows for the Project. These are preliminary and for planning purposes only. Preliminary calculations are provided in **Attachment A**.

Table 1: Wastewater Flow Projection

Flow Condition	Flow (gpd)	Flow (gpm)
Average Day Flow	1,500	1.0
Maximum Day Flow	2,250	1.6
Peak Hour Flow	--	3.1

Notes:
1. Unit flow for the emergency operations center based on the capacity to house two families and assumed to be equivalent to 2 EDUs x 280 gpd/EDU.

There are two existing single-family homes on the property. Existing flow data for the homes is not available but was estimated to be 560 gpd using the County Design Guide residential wastewater rate. The Project is estimated to increase wastewater flow rates by 170%. **Attachment A** explains the methodology for estimating the increase in wastewater flows.

Wastewater Handling and Disposal

This section identifies preliminary wastewater collection and effluent discharge facilities required to manage wastewater generated by the proposed Project. The general concepts for the wastewater facilities are to comply with all applicable permitting requirements.

There are existing wastewater facilities (septic system) on-site that may continue to serve the emergency center. The condition and capacity of existing wastewater facilities have not been evaluated as part of this analysis and it is recommended that they are assessed prior to planning and design of any proposed facilities to determine whether additional facilities are necessary to meet Project requirements. It is expected that all new buildings developed as part of the Project (i.e. new tribal office, library, and homes) will require new septic systems. All wastewater facilities described in this section are preliminary and are intended for planning purposes only and represent the total capacity needs for the Project without accounting for existing available capacity.

Wastewater Collection and Disposal

Wastewater generated onsite is assumed to be of domestic quality suitable for treatment using septic systems. Any wastewater generated on-site would be collected and treated using onsite septic systems and disposed of via leach fields. A typical concrete septic tank configuration is shown in **Figure 3**.

Preliminary sizing of the septic tanks is based on the County of San Diego Onsite Wastewater Treatment Systems Permitting Process and Design Criteria, included as **Attachment B**. The preliminary septic tank sizing is shown in **Table 2**.

Table 2: Preliminary Septic Tank Sizing Criteria

Facility	Estimated Volume (gal)	Estimated Number of Tanks	Footprint (ftxft)	Depth (ft)
Tribal Office	5,000	1	8 x 17	8
Emergency Center	1,500	1	6 x 11	6
Library Community Center Facility	5,000	1	8 x 17	8
Single-Family Home	1,500	2	6 x 11	6

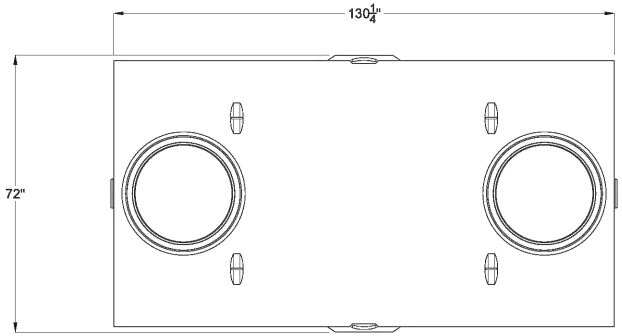
Notes:
1. Nominal sizes based on available Jensen Precast Septic Tank Layout Systems. Other material and sizing options may be available and investigated during design.
2. Depth does not include height of manholes.

The 2001 geotechnical study included percolation tests which were performed at depths of 4, 6 and 10 feet. The results averaged a percolation rate of 28, 30, and 12.6 min/inch, respectively. A Custom Soil Report was provided by Acorn for the Project site. The report states percolation rates range from 1.98 to 5.95 in/hr (30 to 10 min/in) for the Walker I site and 0.2 to 0.57 in/hr (300 to 105 min/in) for the Walker II and Salerno parcels. The percolation tests in the geotechnical study were performed for the Walker I parcel and are consistent with the rates stated in the Custom Soil Report.

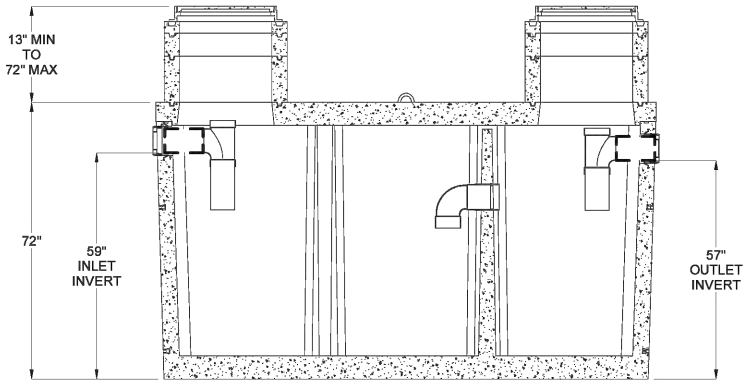
The septic field shall be designed to accommodate maximum day flows using the most conservative infiltration rate of 300 min/in with an added safety factor of 1.2. The effluent from the septic tanks is anticipated to require approximately 900 SF disposal system. The septic field will be designed and installed in accordance with the Indian Health Services guidelines.

Minimum setbacks for wastewater storage and disposal are based on the County of San Diego Onsite Wastewater Treatment Systems Permitting Process and Design Criteria. Septic tanks require a minimum distance of 100 feet from any water well. The proximity of the proposed Project to Viejas Creek would also require leach lines to be a minimum distance of 100 feet from top of bank. These setbacks are shown in **Figure 4**.

Solids from the septic tank will be hauled away by an approved contract hauler on an as required basis.



PLAN VIEW



CROSS SECTION

200051012.idw

BURY DEPTH:	1.1' - 6.0' to Top			DESCRIPTION:			REV:
WATER LEVEL:	Below Structure	WEIGHT:	19937.83 Lbs	Tank JP 1500 Gallon 6 Inch Layout Septic 24"E, 24"E Single Baffle			B-2
DESIGN SPEC:	ASTM C890,ACI 318	LOADING SPEC:	A-16 (AASHTO HS20-44)	LAYOUT DRAWING			SHEET:
REINFORCEMENT TYPE:		LIFTING TYPE:		PART NUMBER: 200051012	DRAWN BY: E. Fine		2 OF 2
JENSEN PRECAST EST. 1968 WWW.JENSENPRECAST.COM				CREATED: 1/31/2019	MODIFIED: 6/28/2022		

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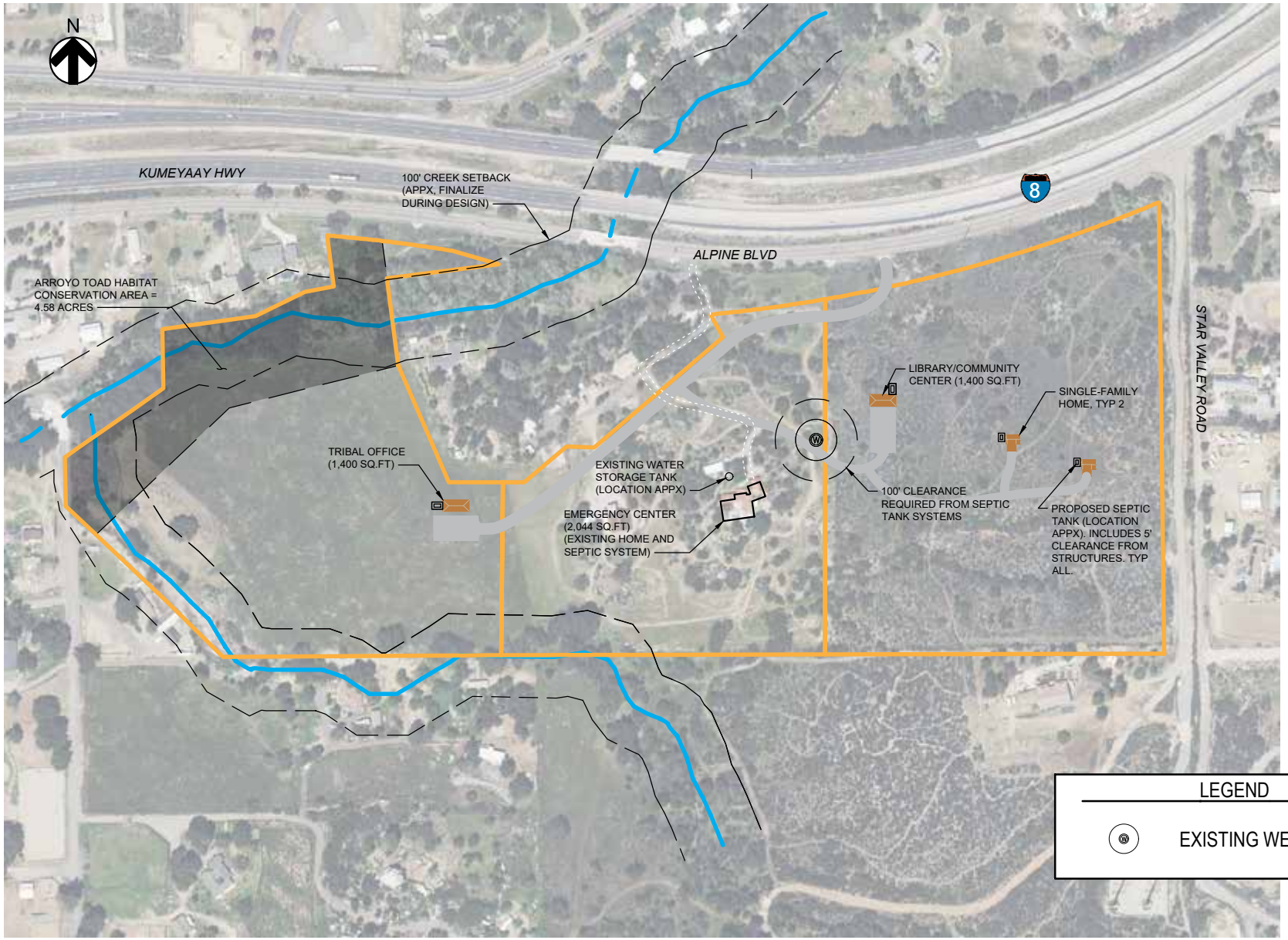
HydroScience

Figure 3
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Typical Concrete Septic Tank



HydroScience

Figure 4
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Proposed Site Facilities

Water Demand Estimates

Preliminary projections of the water supply needed to reliably meet water demand for the facilities are summarized in **Table 3**. These projections are based on estimated average wastewater flows (see **Table 1**) and include a 20% allowance for system losses as well as a safety factor to ensure adequate supply. Actual billing/metered data was not available. These are preliminary and for planning purposes only. Preliminary calculations are provided in **Attachment A**.

Table 3: Projected Water Demands

Flow Condition	Demand (gpd)	Demand (gpm)
Average Day Flow	2,400	1.7
Maximum Day Flow	3,300	2.3
Peak Hour Flow	--	4.2

Notes:
1. Peaking factor for Maximum Day Flow is 1.5, which is typical for similar facilities. The peaking factor was only applied to the facility demands. Landscape irrigation demands were estimated assuming drought tolerant shrubs/trees are planted five feet around the perimeter of all facilities/homes and parking lots.
2. Peaking factor for Peak Hour Demands is 3.0, which is conservative for similar facilities. The peaking factor was only applied to the facility demands.

Metered flow data for the existing homes is not available but was estimated to be 670 gpd using the assumptions as described above. Thus, the proposed project is estimated to increase water demand by 260%. **Attachment A** explains the methodology for estimating the increase in water use.

The Project facilities are also expected to be designed and managed to minimize potable water usage. Recommended water conservation measures include low flow fixtures, high efficiency/water conserving appliances, xeriscape native vegetation, etc.

Fire flow requirements (or guidelines) are typically set by the local fire authority based on the building's use and classification. Domestic storage requirements are generally controlled by domestic peaking requirements. It is recommended that total storage requirements generally adhere to fire flow and duration requirement from the local fire authority as they take into consideration local conditions and hazards. Fire flow guidelines outlined by the Alpine Fire Protection District indicates a minimum flow rate of 250 gpm is recommended for fire flow with duration determined by building size. The following storage guidelines for a single family home in Alpine County are shown in **Table 4**.

Table 4: Fire flow Water Storage Guidance for Single Family Home

Building Square Feet	Flow (gpm)[1]	Duration (min)	Capacity (gal)
Up to 1,500	250	20	5,000
Over 1,500	250	40	10,000

Notes:
1. Minimum flow per the Alpine Fire Protection District Fire Prevention Policy Manual (alpinefire.org) for a single family home.

Water Supply Capacity

The Project will require a potable water supply for use within the Project. Potable water shall be obtained through the construction of on-site groundwater wells or use of the existing onsite well. The capacity and quality of the existing well is unknown; however, it is anticipated that it will continue to serve the Project. Irrigation water could be obtained either through use of a separate on-site irrigation well or use of potable water.

A Well Pumping Test and Completion Report (Report) was conducted in 2002 on the Ewiiaapaayp Reservation just North (across I-8) of the proposed Project site. According to the Report, the test well was completed to 650 feet below ground surface (bgs) with an 8-inch internal diameter casing. A 72-hour pumping test was performed on December 3-6, 2002 with the pumping rate set at 70 gallons per minute (gpm) initially. The final pumping rate was set at 61 gpm based on the rate of water level decline and depth to pump intake. Based on further calculations, a 45 gpm maximum pumping rate was considered appropriate for the design of the well. An observation well was identified approximately 123 feet North of the test well. Based on the results of the Report, no direct interference was observed in the observation well or nearby creek that was attributed from the test well.

Well characteristics of other local domestic wells located within the vicinity of the Project site include pumping rate ranges of 35-115 gpm and total well construction depths of 450-795 feet according to the California Department of Water Resources Well Completion Reports. While the available well construction details are limited, the data shows the test well pumping rate of 45 gpm identified in the Report is consistent with the performance of other wells within the Project vicinity.

It is assumed that the identified existing on-site well will be evaluated to determine pumping capacity and obtain water quality data.

The following excerpt is from the 2012 Willow Road Study Area Water and Sewer Feasibility Study which describes the proposed Project's local groundwater supply:

> *The local groundwater supply is situated in the upper Sweetwater Watershed, which encompasses 230 square miles and empties into the San Diego Bay. The watershed is heavily urbanized in the western portions, with a population of about 350,000. Groundwater resources are limited. The shallow alluvial basin is the most permeable formation but is very limited in scope, with storage capacity estimates ranging from 13,000 AF (SDCWA 1997) to 20,000 AF (DWR 1986). In general, the alluvial formation groundwater is fully utilized. The much older San Diego Formation, underlying the western portion of the watershed is a confined basin much larger in size but with low well yields and poor water quality. Based on input from a local USGS representative, wells within the project site would essentially be "bedrock wells" taping [sic] the underlying fractured rock complex. Bedrock wells are very unpredictable in terms of yields and water quality and are generally limited to sustainable yields of no greater than 40 gpm, or 57,600 gpd.*

The Report also determined that water supply in the vicinity of the test well appeared to be low-capacity wells which is consistent with the information found online and in the preceding excerpt.

Project Site Geotechnical Report

A geotechnical study was conducted on the Walker I site by Summit Engineering Corporation and their observations and conclusions were documented in the *Geotechnical Investigation Alpine Clinic South Alpine, CA* on March 9, 2001. The study provides a summary of only a portion of the site's soil and geologic conditions.

Three general soil types were observed at the site. The encountered soils within the upper 14 feet of several test pits primarily consisted of silty sands and poorly graded sand/clay mixtures. In one test pit clayey sand was encountered from 15 to 21 feet below the ground surface. No groundwater was ever encountered in the test pits. Groundwater is therefore not anticipated to be a concern regarding the design, construction, or operation of the proposed leach field. However, site specific testing should be conducted to confirm. For a more detailed description of the encountered soils, the test pit logs and laboratory test results are included in **Attachment C**.

Water Facility Requirements

This section identifies preliminary anticipated water facility requirements needed to supply the proposed Project with water. The facilities identified in this section are based on HydroScience's experience with similar projects. This section describes the following facilities:

- Groundwater Supply Well
- Chlorination Facility
- Storage Tank and Pump Station

There are existing water facilities on-site that may continue to be used for the proposed Project, specifically the emergency center. The existing water facilities include a groundwater well, piping, and potable water storage tank. The condition and capacity of existing water facilities have not been evaluated as part of this analysis and it is recommended that they are assessed prior to planning and design of any proposed facilities to determine whether additional facilities are necessary to meet Project requirements. All water facilities described in this section are preliminary and are intended for planning purposes only and represent the total capacity needs for the Project without accounting for existing available capacity.

Groundwater Supply Well

The Project is proposed to utilize the existing well on-site to meet the demands of the project. The existing well will require evaluation to determine the actual well capacity, condition of the well and determine if other design upgrades are required. These will be further developed during the design phase.

It is recommended that the new well or existing well have a minimum control zone radius of 50-ft around the well to protect the source from vandalism, tampering, and other possible sources of contamination. The well is anticipated to have similar lithographic, water production, and water quality characteristics as the existing well serving the Alpine Clinic North located across I-8. It is anticipated that the existing well on the proposed Project site will require the same level of treatment which consists of only chlorination.

Chlorination Facility

The proposed treatment of water will meet the current tribal and Indian Health Services requirements as well as federal standards.

As mentioned in the previous section, similar to the well serving the Alpine Clinic North, the water supply is not expected to require softening or chemical treatment, only chlorination. This simplifies the design and layout of the treatment plant facility.

Sodium hypochlorite would be used to disinfect the water before on-site distribution. A chlorine residual analyzer will provide continuous monitoring of chlorine residual prior to distribution. Chlorine dosage control can be manual, with options for automatic pacing based on residual. Chlorine injection can occur in line with or without a mixing tank. A storage tank could be utilized for contact and mixing.

Storage, Pumping and Distribution

A water storage tank would be designed to store water produced by the groundwater well. The actual required capacity of the tank is dependent on the Project's fire flow requirements, the volume and condition of the existing water storage tank, and available well capacity; however, for planning purposes, the assumed capacity is approximately 44,000 gallons (gal) (see **Table 5**). This provides the Project with up to four peak days of domestic water supply as well as two hours of fire flow to support the Project. A typical section of a cylindrical welded steel tank is shown in **Figure 5**. The facilities are expected to be designed in accordance with UBC and NFPA codes. The tank sizing would be based on standard pre-engineered tank dimensions, which are typically in 8-foot increments.

The storage tank would not provide adequate head to pressurize the system and would require a pump station to convey water at pressure to the distribution system. A hydropneumatic tank can also be implemented to manage low flows and minimize pump starts and stops. This pump station would be sized to handle both fire flow and domestic demands. The ultimate pumping capacity will be dependent on fire flow requirements and can be satisfied by two variable-speed high-service pumps that are half the capacity of the projected flow requirement.

Table 5 presents the potential design criteria for the water storage tank and pump station.

Table 5: Potential Water Storage Tank and Pump Station Design Criteria

	Parameter	Value
Water Storage Tank	Approximate volume[1]	44,000 gal
	Approximate diameter	22 feet
	Approximate working height	16 feet
	Construction	Welded steel
Potable Water Pump Station	Low service pump number	2
	Low service pump type	Variable speed horizontal centrifugal
	High service pump number	2
	Hydropneumatic tank approximate volume [2]	1,000 - 2,000 gallons

Notes:
1. This includes 13,200 gallons for domestic storage demands. Domestic storage is calculated as four days of maximum day demand (refer to **Table 3**). This method is based on conservative storage requirements for domestic water use.
2. Exact volume is to be determined during the design phase of the project. Tank volume is dependent on the flowrate and pressure the hydropneumatic tank is expected to provide.

There are currently potable water conveyance pipelines on the Project site. The condition, size, and location of the existing infrastructure is unknown and will need to be evaluated to determine whether it is suitable for use and/or would require rehabilitation or replacement.

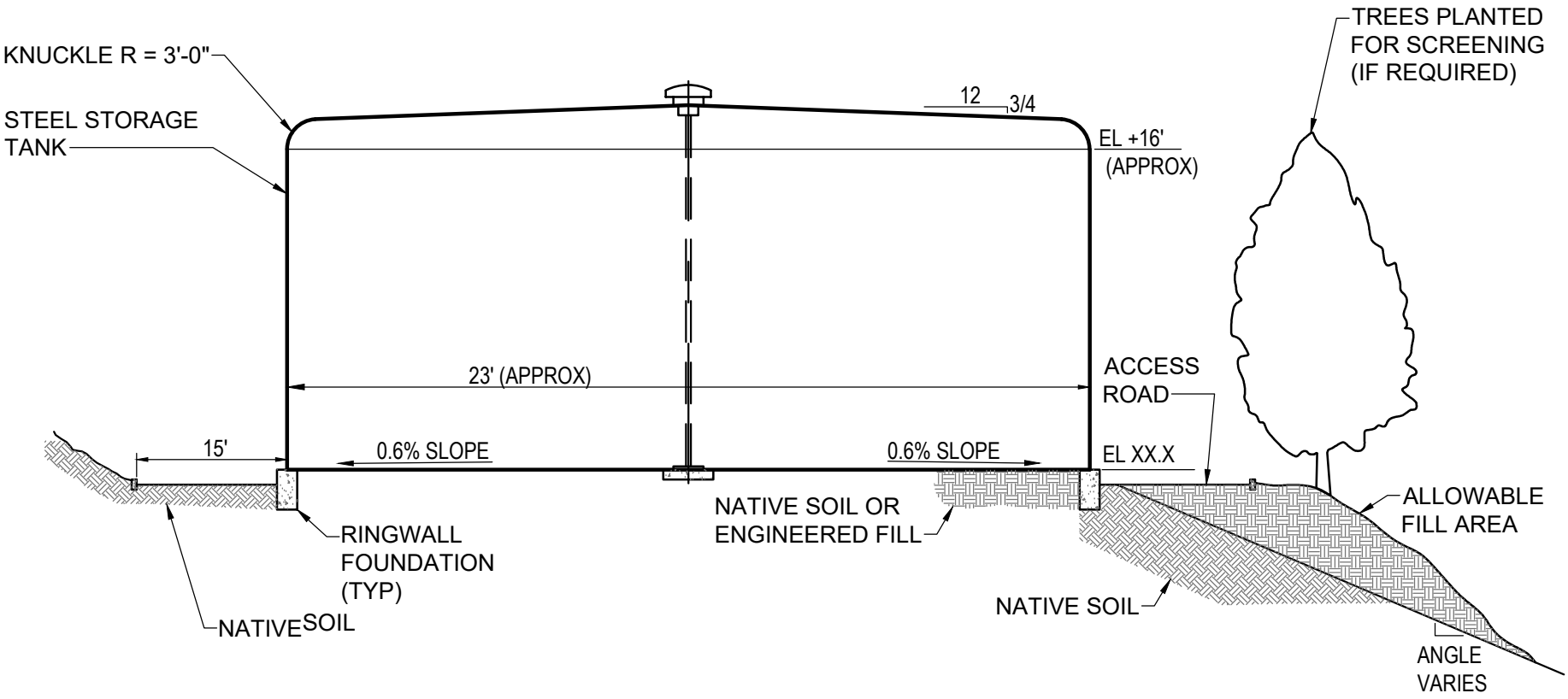


Figure 5
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Typical Potable Water Storage Tank

HydroScience

Stormwater Runoff and BMP Recommendations

A hydrologic investigation was performed to estimate the 100-year storm runoff for the pre and post development conditions of the site. Per the San Diego County Hydrology Manual (Hydrology Manual), The Rational Method (RM) should be used to determine urban storm drainage estimated peak runoff rates from small urban and rural watersheds up to 1 square mile in size.

The RM formula estimates the peak runoff rate at any location in the watershed basin as a function of drainage area (A), runoff coefficient (C), and rainfall intensity, (I) for the duration equal to the time of concentration (T_c), which is the time required for water to flow from the most remote point of the basin area to the location being analyzed. The RM formula is expressed as follows:

$$Q = CIA$$

Where:

Q = Peak discharge, in cubic feet per second (cfs)

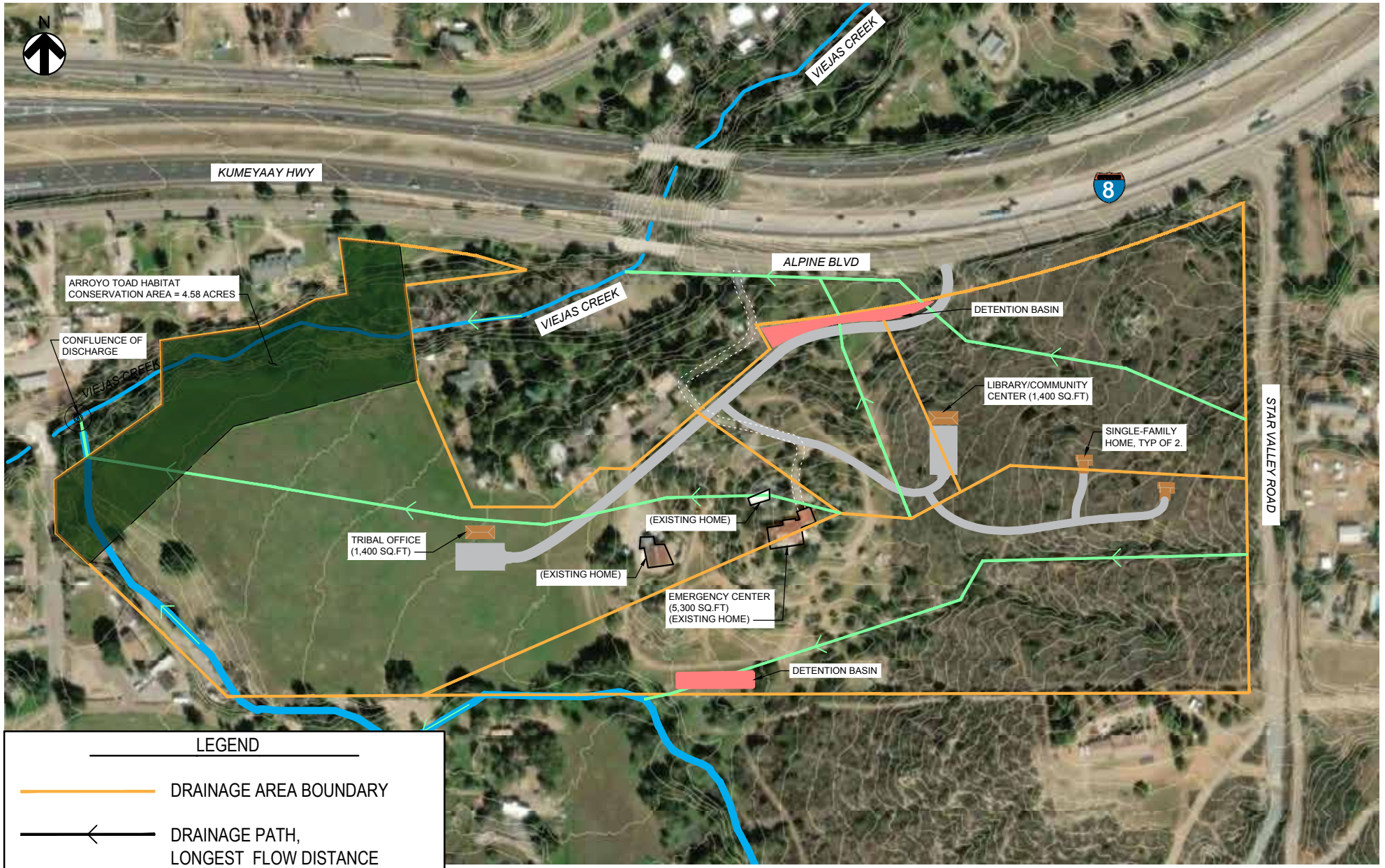
C = Runoff coefficient, unitless

I = Average rainfall intensity for duration equal to the T_C for the area, in inches per hour (in/hr).

A = Drainage area contributing to the design location, in acres (ac)

Site Drainage Area and Hydrology

The existing site area is 48.83 acres and consists of undeveloped and spaced rural residential uses. The existing site has four different drainage areas with two discharges to a natural watercourse to the north and one discharge to the south. The last discharge is to the west of the site and consists of a sheet flow directly into Viejas Creek. Ultimately, all site flows will be discharged into Viejas Creek. A hydrology map showing the drainage pattern and existing and proposed impervious areas are provided as **Figure 6**. The proposed site improvements are minimal in nature, and do not significantly alter the existing drainage patterns and flow paths. For the purposes of simplifying this analysis, drainage areas will not be subdivided, and a conservative T_c will be used to calculate the overall hydrological impacts.



HydroScience

Figure 6
Acorn Environmental
Water, Wastewater, and Stormwater Impact Analysis
Site Hydrology Map

Runoff Coefficient

The existing site area consists of both undeveloped and spaced rural residential use with less than 1 dwelling unit per acre. The hydrologic soils group map in Appendix A of the Hydrology Manual indicates the soils group as Type "B".

The pervious runoff coefficient value (C_p) was taken from Table 3-1 of the Hydrology Manual and determined to be 0.27. Using this value, the Runoff Coefficient is calculated by the following equation:

$$C = 0.90 \times (\%Impervious) + C_p \times (1-\%Impervious)$$

Although the site characteristics of use and soil type are not changing, the addition of impervious surfaces such as roadways and buildings will increase the site peak runoff. The site today includes less than 2% coverage with impervious surfaces. Whereas the proposed site improvements increase the impervious surfaces to approximately 4.7% coverage with construction of buildings, parking lots, and roadways. These pre and post improvement Runoff Coefficient values were calculated to be:

$$\mathbf{C_{Pre}} = \mathbf{1.31}$$

$$\mathbf{C_{Post}} = \mathbf{3.29}$$

Rainfall Intensity

The rainfall intensity (I) is the rainfall in inches per hour (in/hr) for a duration equal to the T_c for a selected storm frequency. The 100-year 24 hours storm intensity was chosen to be analyzed. Since subdivided hydrology areas are not being analyzed individually for flow, a conservative T_C of 1 hour was chosen to simulate the time required for the entire site to drain to the ultimate discharge location, Viejas Creek.

To calculate rainfall intensity, historical isopluvial maps were used to select the 6-hour and 24-hour storm rainfall amounts. With P_6 = 3.5 inches and P_{24} = 7 inches, where P_6 is to be 45%-65% of P_{24}. Rainfall intensity can be calculated by:

$$I = 7.44\ P_6\ D^{-0.645}$$

Where:

I = Average rainfall intensity for duration equal to the TC for the area, in inches per hour (in/hr).

P_6 = Adjusted 6-hour storm rainfall amount

D = Duration in Minutes (use TC)

The resulting calculation is as follows:

$$\mathbf{I} = 7.44\ (3.5)\ (60)^{-0.645} = \mathbf{1.86\ in/hr}$$

Rational Method Calculations and Stormwater Impacts

The peak stormwater runoff flows for the pre and post development conditions are calculated as:

$$\mathbf{Q_{Pre\text{-}Development}} = C_{Pre}\ I\ A = (1.31)\ (1.86\ in/hr)\ (48.83\ ac) = \mathbf{119\ cfs}$$

$$\mathbf{Q_{Post\text{-}Development}} = C_{Post}\ I\ A = (3.29)\ (1.86\ in/hr)\ (48.83\ ac) = \mathbf{299\ cfs}$$

The comparison above shows that there is a significant increase in peak discharges as compared to the pre-development condition. This increase is due to the introduction of more impervious surfaces (rooftops and paving) as part of the site development.

To mitigate offsite stormwater impacts, a stormwater drainage system for the proposed project should be designed to limit the peak flow from the development to pre-development peak flows. To accomplish this, stormwater detention should be incorporated into the project site. This will store the increased peak runoff and peak flow rates. The peak flow from the detention basins will be metered through the basin outfall structure that will mitigate the increased flow rate to pre-development conditions.

Stormwater Detention

The Hydrology Manual Section 6 – *Rational Method Hydrograph Procedure* describes procedures that may be used for the development of hydrographs from RM study results for study areas up to approximately 1.0 square mile in size. The RM Hydrograph Volume formula is expressed as follows:

$$VOL = CP_6A$$

Where:

Vol = Volume of Rainfall, acre-inches (ac-in)

C = Runoff coefficient, unitless

P_6 *= Adjusted 6-hour storm rainfall amount*

A = Drainage area contributing to the design location, in acres

The resulting calculations are as follows:

$$\mathbf{Vol_{Pre\text{-}Development}} = 1.31\ (3.5)\ (48.83) = \mathbf{224\ ac\text{-}in} = \mathbf{18.7\ ac\text{-}ft}$$

$$\mathbf{Vol_{Post\text{-}Development}} = 3.29\ (3.5)\ (48.83) = \mathbf{562\ ac\text{-}in} = \mathbf{46.9\ ac\text{-}ft}$$

$$\mathbf{Vol_{Differential}} = 562.3\text{-}223.9 = \mathbf{338.4\ ac\text{-}in} = \mathbf{28.2\ ac\text{-}ft}$$

The comparison above shows that there is an increase in discharge volume as compared to the pre-development condition. Construction of detention basins with an approximate overall storage volume of 338.4 ac-in (28.2 ac-ft) is required to mitigate the increase in stormwater runoff volume. The volume presented is conservative in nature and additional hyetograph

analysis of each sub-area is required to determine the actual storage volume of each sub area. **Figure 6** presents possible locations for detention basins to capture drainage area flows.

Erosion Control and Best Management Practices (BMPs)

The site mainly consists of rural undeveloped natural land. The ground cover protects the soil from erosion and sediment transfer to a degree. During site construction, the soil will be subject to high erosion possibilities during the winter months; this is when most of the sediment transfer can occur. The proposed site development would implement BMPs to mitigate sediment runoff during construction. Some of the BMPs may include silt fences, gravel bags, and/or temporary desiltation basins.

After the project construction is complete, there should be a reduction in sediment transfer, due to more impermeable surfaces and implementation of a stormwater drainage system with detention basins. It is expected that erosion control plans shall be prepared as part of the project design package in compliance with federal standards and utilizing appropriate BMPs. It is concluded that the project development has a positive effect on erosion and sedimentation issues with the installation of BMPs.

ATTACHMENT A
Acorn Environmental
Walker, Walker II, and Salerno Impact Analysis
Water Demand and Wastewater Generation Rate Calculations

Project: **Water, Wastewater, and Stormwater Impact Analysis**
Client: **Acorn Environmental**
Date: **1/11/2024**
Title: **Water Demand and Wastewater Flow Projection**

Element	Units	Quantity	Unit Flow (gpd/unit)	Base Flow
			gpd/unit	gpd
Tribal Office	SF	1,440	0.1	144
Emergency Operations Center[1]	GPD/EDU	2	280	560
Library Community Center Facility	SF	1,440	0.1	144
Singe-Family Home[2]	GPD/EDU	2	280	560
Subtotal				**1,408**
Total Area		**2,882**		
AVG WW FLOWS				**1,500**
MAXIMUM DAY FLOWS		**PF**[3]	**1.5**	**2,250**
PEAK HOURLY FLOWS		**PF**	**3**	**4,500**
Avg Potable Water Demand for Facilities (20% Increase over WW Flow Est)				**1,800**
Landscape Irrigation	LS	1	600	600
Subtotal				**2,400**
AVG W FLOWS				**2,400**
MAXIMUM DAY FLOWS		**PF**	**1.5**	**3,300**
PEAK HOURLY FLOWS		**PF**	**3**	**6,000**

1. Unit flow asssumed similar to a single family residential.
2. Unit flow based on San Diego County Sanitation District Wastewater Sewer Design Guide. https://www.sandiego.gov/sites/default/files/legacy/mwwd/pdf/sewerdesign.pdf
3. Peaking factors only applied to potable demand for facilities which may vary based on time of day (excludes landscape irrigation).

Crop Irrigation Demand, per month

Estimated Acreage for Landscape: 0.17 acres
Assumption - 5 feet all around facilites and parking lots will be irrigated

Element	Units	October	November	December	January	February	March	April	May	June	July	August	September	Annual Average
No. of Days		31	30	31	31	28	31	30	31	30	31	31	30	
Average Precipitation Demands														
	AF	0.04	0.01	0.00	0.00	0.00	0.00	0.04	0.06	0.07	0.08	0.07	0.06	
	gpd	375	74	0	0	0	23	427	584	747	800	774	614	370
Dry Precipitation Demands														
	AF	0.04	0.02	0.01	0.01	0.01	0.03	0.05	0.06	0.07	0.08	0.07	0.06	
	gpd	442	249	130	79	123	335	566	649	762	811	788	643	467
													SF	1.2
													Est. Demand for Landscape	**600**

GIVEN CROP IRRIGATION DEMAND

Crop Irrigation Demand, per month

Element	Units	October	November	December	January	February	March	April	May	June	July	August	September	Season
Evapotranspiration (Et_o)[a]	inches	**3.54**	**2.53**	**2.01**	**2.25**	**2.71**	**3.87**	**4.62**	**5.04**	**5.46**	**5.98**	**5.82**	**4.68**	**48.51**
Crop Evapotranspiration (Et_c)[b]	inches	2.48	1.77	1.41	1.58	1.90	2.71	3.23	3.53	3.82	4.19	4.07	3.28	33.96
Average Precipitation Conditions														
Avg Rain	inches	0.56	1.41	1.94	3.05	3.47	2.59	1.12	0.54	0.12	0.10	0.11	0.24	15.25
Avg Demand[c]	inches	1.92	0.37	0.00	0.00	0.00	0.12	2.11	2.99	3.70	4.09	3.96	3.04	22.29
Avg Application[d]	feet	0.21	0.04	0.00	0.00	0.00	0.01	0.23	0.33	0.40	0.45	0.43	0.33	2.44
DRY Year Precipitation Conditions														
Dry-YR rain	inches	0.22	0.54	0.74	1.17	1.33	1.00	0.43	0.21	0.05	0.04	0.04	0.09	5.85
Dry-YR Demand[c]	inches	2.26	1.23	0.66	0.40	0.57	1.71	2.80	3.32	3.77	4.15	4.03	3.18	28.11
Dry-YR Application[d]	feet	0.25	0.13	0.07	0.04	0.06	0.19	0.31	0.36	0.41	0.45	0.44	0.35	3.07

NOTES:

[a] Station 150 - Miramar California Irrigation Management Information System (CIMIS)

[b] Actual Water Demand of Given Crop: Etc = Eto X Kc

[c] Actual Demand of Given Crop difference of Rainfall

[d] Application Requirements to Irrigated Area.

Crop Coefficient (K_c):	**0.7**	Shrub - per previous project
Rainfall Efficiency:	**0.95**	Amount of rain that makes it to the ground
Irrigation Efficiency:	**0.8**	Typical
Leachate Factor	**1.05**	Assumes 5% water applied leaches past root zone

PRECIPITATION and DISTRIBUTION of RAIN

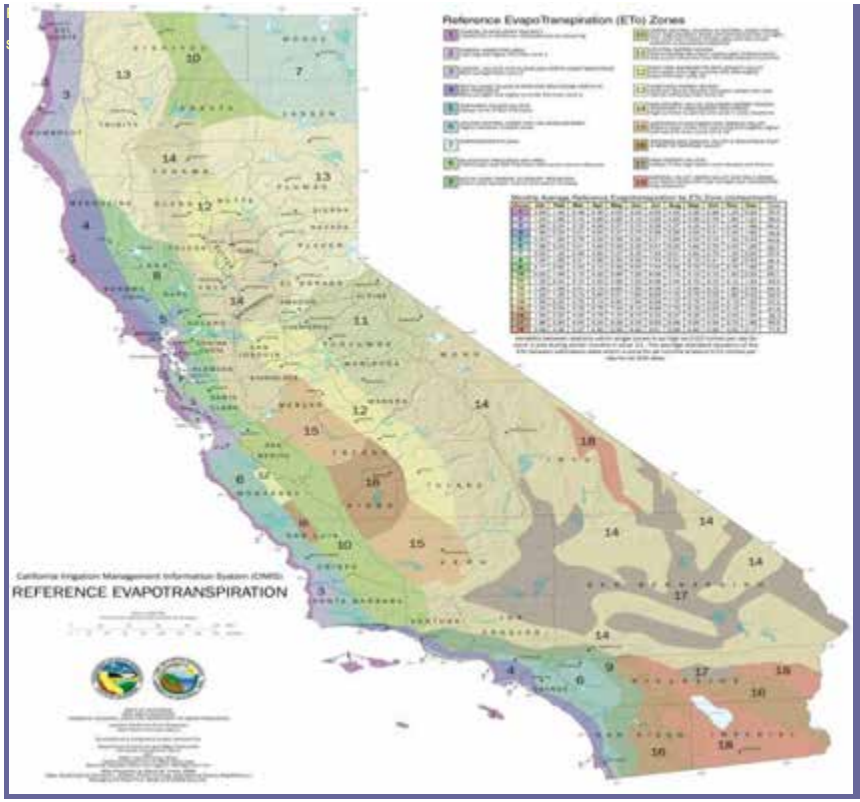
Rainfall Depth Data for Alpine, CA

Source for Avg: NOAA NCEI U.S. Climate Normals Quick Access
Source for Dry yr: https://cimis.water.ca.gov/WSNReportCriteria.aspx

MONTH	October	November	December	January	February	March	April	May	June	July	August	September	TOTAL
Dry Year	0.23	0.57	0.78	1.23	1.40	1.05	0.45	0.22	0.05	0.04	0.05	0.10	6.16
Avg Precip	0.59	1.48	2.04	3.21	3.65	2.73	1.18	0.57	0.13	0.10	0.12	0.25	16.05



Month	MAX TEMP (°F)	MIN TEMP (°F)	AVG TEMP (°F)	PRECIP (IN)
Jan	63.9	42.5	53.2	3.21
Feb	64.2	42.3	53.3	3.65
Mar	67.2	44.4	55.8	2.73
Apr	70.7	46.9	58.8	1.18
May	74.4	50.6	62.6	0.57
Jun	81.2	54.3	67.8	0.13
Jul	86.7	60.2	73.4	0.10
Aug	88.9	62.2	75.5	0.12
Sep	85.9	60.3	73.1	0.25
Oct	78.3	54.0	66.2	0.59
Nov	70.8	47.6	59.1	1.48
Dec	63.1	41.5	52.3	2.04



California Irrigation Management Information System (CIMIS)

CIMIS Monthly Average ETo Report

Rendered in ENGLISH Units.
Printed on Monday, December 18, 2023

Average ETo Values by Station

Stn Id	Stn Name	CIMIS Regior	Jan (in)	Feb (in)	Mar (in)	Apr (in)	May (in)	Jun (in)	Jul (in)	Aug (in)	Sep (in)	Oct (in)	Nov (in)	Dec (in)	Total (in)
150	Miramar	SCV	2.25	2.71	3.87	4.62	5.04	5.46	5.98	5.82	4.68	3.54	2.53	2.01	48.51

ATTACHMENT B

Acorn Environmental
Walker, Walker II, and Salerno Impact Analysis
County of San Diego Onsite Wastewater Treatment Systems
Permitting Process and Design Criteria

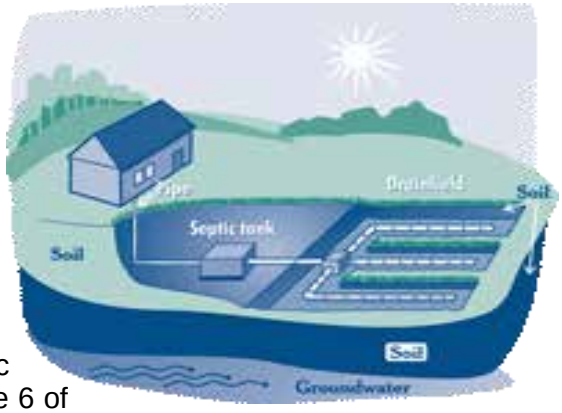
County of San Diego

Department of Environmental Health
Land and Water Quality Division
www.sdcdeh.org

San Diego Office
5500 Overland Avenue, Ste. 210
San Diego, CA 92123
(858) 565-5173

San Marcos Office
151 E. Carmel Street
San Marcos, CA 92078
(760) 471-0730

Onsite Wastewater Treatment Systems
(Septic Systems)
Permitting Process and Design Criteria



This document describes how onsite wastewater treatment systems (OWTS) are reviewed and permits issued in San Diego County. The document also summarizes key design criteria for these systems. This document relies on and should be read together with the County's "Onsite Wastewater System Groundwater Policy."

Persons seeking OWTS permits from the County should also review Chapter 3 [Septic Tanks and Seepage Pits] of Division 8 of Title 6 of the County Code of Regulatory Ordinances (County Code sections 68.301 et seq.), and applicable grading, building, and land use rules for the relevant municipal jurisdiction.

State, County, and City Roles

State / County Coordination

Onsite wastewater treatment systems discharge pollutants to groundwater, and therefore are regulated by the State Water Code. Water Code section 13282, allows Regional Water Quality Control Boards (RWQCB) to authorize a local public agency to issue permits for and to regulate OWTS "to ensure that systems are adequately designed, located, sized, spaced, constructed and maintained." The RWQCB, with jurisdiction over San Diego County authorizes the County of San Diego (County), Department of Environmental Health (DEH) to issue certain OWTS permits throughout the county including within incorporated cities. No city within San Diego County is authorized to issue these permits.

The RWQCB has imposed conditions and restrictions on the County's permit program. The County is authorized to issue permits for conventional OWTS, e.g., for septic tank and leach line and seepage pit systems anywhere in the County. The County can issue permits for mound systems in the Valley Center area only. The County is not authorized at present to issue permits for any other kind of unconventional OWTS that will have a

subsurface discharge, unless no other option is available as a repair to an existing dwelling. The County is considering seeking such authorization. However, at present, persons seeking discharge permits for types of OWTS that the County is not authorized to permit must apply directly to the RWQCB for a state permit.

The DEH enforces the RWQCB, Region 9, requirements of maintaining at least a five-foot separation between the bottom of the OWTS disposal point and the highest anticipated groundwater level. Projects within the Colorado Regional Water Quality Control Board, Region 7, located east of the coastal mountains (desert), are subject to greater separation requirements, due to the extreme permeability and transmissibility of some desert basin soils.

The goal of DEH's OWTS program is to ensure that installed onsite sewage disposal systems will last the life of the dwellings they serve, and not cause any public exposure to surfacing sewage or any contamination of groundwater or surface waters. The County concurs with the RWQCB that the separation requirements the RWQCB has imposed are appropriate minimum requirements necessary to protect groundwater quality and public health whenever septic tanks and leach lines or seepage pits are used as an OWTS. These requirements are a condition of the State's authorization for the County to issue OWTS permits locally. These restrictions cannot be modified by the County on a case-by-case basis, and must be rigorously implemented. The County's "Onsite Wastewater System Groundwater Policy" describes in detail how the County ensures that these State-imposed requirements are met.

County DEH / Local Land Use Agency Coordination

County DEH OWTS review procedures provide documents that applicants may need to take to land use agencies to secure other required local permits. County DEH also reviews plans submitted to these agencies to ensure that an OWTS will match up with the project to be constructed. The fundamental point that persons seeking OWTS permits must remember is that the County DEH OWTS permit process and local (including County) land use approval and permitting processes *are separate processes*. While they are coordinated to some extent, a County DEH OWTS permit or related approval is *never* a substitute for a required local grading, land use or building permit. Similarly, no local land use approval or permit (e.g., approval of a subdivision map or lot split or boundary adjustment, even after preliminary septic system review by DEH), is a substitute for a County DEH OWTS permit, or a guarantee that such a permit can be issued.

System Design Considerations

The most common type of OWTS found in San Diego County consists of a septic tank connected to leach lines. Variations of this system may include a septic tank connected to either a horizontal or vertical seepage pit. In some applications, the disposal field is at a higher elevation than the building site. In this instance, a pressure-system is used to deliver the sewage to a standard disposal field were it is distributed by gravity flow. All of these examples would be considered a "conventional" onsite wastewater system because no further sewage treatment is performed between the septic tank and the disposal field. In all cases, the sewage effluent is discharged below the ground surface, and is digested by bacteria in unsaturated soil zones for treatment of the sewage underground. These systems are designed to operate in all weather conditions with minimal maintenance, other than periodic septic tank pumping to remove sludge from the septic tank.

The size and type of OWTS needed for a particular building project will be a function of the following factors:

Soil Permeability:	Permeability determines the degree to which soil can accept sewage discharge over a period of time. Permeability is measured by percolation rate, in minutes per inch (MPI).
Unsaturated Soil Interval:	The distances between the bottom of the OWTS leach field trenches and the highest anticipated groundwater level or the shallowest impervious subsurface layer at a site.
Peak Daily Flow:	The anticipated peak sewage flow in gallons per day. In many cases the number of bedrooms for a proposed home is used as an indicator of peak daily flow.
Net Usable Land Area:	The area available that meets all setback requirements to structures, easements, watercourses, or other geologic limiting factors for the design of an OWTS

Some sites are not acceptable for conventional OWTS based on low soil permeability, regardless of the unsaturated soil interval available at the site.

All conventional OWTS in San Diego will require at least 5 feet of unsaturated soil between the bottom of the sewage disposal system and the highest anticipated groundwater level for the site. Depth to groundwater varies tremendously with the amount of rainfall for many areas in San Diego County. Therefore, the highest anticipated groundwater levels must be established for any OWTS design in order to meet this separation requirement. Details are provided in the County's "Onsite Wastewater System Groundwater Policy."

At sites affected by a shallow impervious layer of rock or clay, a minimum five-foot unsaturated soil interval is required between the bottom of the disposal system and the shallowest impervious layer.

The net useable land area required for an OWTS will usually depend primarily on soil permeability and peak daily flow. Details on set back requirements and net useable land areas requirements are provided below.

The Permit Process

"Certifications" are Not OWTS Permits

The process for obtaining an OWTS permit for development on a legal lot in the County of San Diego is described in this section. This process must be completed even if a lot has previously been "certified" by the County for a septic system. Typically, any such prior certification will be noted in land use records, e.g., through a map or plan notation that the lot is "approved" or "certified" for a septic system, or in a separate County-issued "certificate of compliance". These notes and certificates may also state conditions for an acceptable OWTS, such as a minimum required leach line length. *No matter how detailed and final they appear to be, these map and plan notations and certificates of*

compliance are not OWTS permits, and they do not assure that an OWTS permit can be issued.

There are several reasons that prior County certifications as part of the land use process do not ensure that an OWTS permit will be issued. First, County DEH can only issue OWTS permits as authorized by the RWQCB. That authorization requires completion of the kind of process described in this section. Second, site characterization work and analysis performed to support prior County certifications may have been the best that could have been done at the time (e.g., in a period of below normal rainfall), but may nevertheless be inadequate to support an OWTS permit. Third, new information may have come to light since a certification was issued, due to measurements taken on or near the site under different rainfall conditions. This is more likely to be the case for older certifications. Fourth, these certifications are not based on detailed project and OWTS designs and layout plans. Certification of a lot for a septic system is not the same thing as approval of a specific system, at a specific location, for a specific project, on that lot. Finally, these certifications provide no legal entitlement. Even if a certification was construed as a permit to construct an OWTS, that permit would expire after one year unless the system was actually constructed, inspected, and given final approval.

Certifications, while not a guarantee that an OWTS permit will be issued, may still be relevant at many sites. This is more likely when the information relied on for the certification is recent, of high quality, and was collected during a normal average rainfall year.

Steps in the Permitting Process

The County DEH OWTS permitting process includes the steps set out below:

1. If a percolation test is needed, the applicant must submit a percolation test and design as performed by a registered civil engineer, registered geologist or registered environmental health specialist, certified by DEH for testing within San Diego County, for County DEH approval. The certification process for design consultants is an orientation process provided by staff to the industry of the Department's design criteria. In some cases, a new percolation test may not be needed, e.g., if the County certified a prior test during the subdivision or lot split process, and more recent information raises no new concerns or issues.

   A percolation test may be required when:

   - No previous County DEH certification was provided for the lot or parcel;
   - The previous certification was issued without a percolation test;
   - Grading or other soil disturbance has occurred in the proposed septic system location;
   - The system is being shifted out of the previously tested area; or
   - A disposal system other than the system previously considered is being proposed.

   DEH approval of a percolation test design expires after one year, however the test data remains valid and may be used later to design and size an OWTS for a project.

Note: Grading or clearing of brush for the purposes of completing a percolation test must be approved by the Department of Planning and Land Use and requires the implementation of stormwater best management practices.

2. With percolation test data and other data in hand, the applicant must develop and submit a Layout Design for the proposed building project and specific OWTS, for County DEH review. The Layout Design must take percolation test data and this guidance into account. See below, "The Layout Design" for additional information on submission requirements.

3. After review, if it appears likely that the proposed OWTS can be permitted at the site, County DEH will provide an approval for the Layout Design. The County may require additional testing before providing this approval. In some cases, this additional testing will include depth to groundwater measurements during a normal average rainfall year. This may delay County DEH approval for a year or more. In some cases, DEH may conclude that a conventional OWTS cannot be safely used on the lot. Because of the potential for delays or disapproval, DEH recommends that applicants submit a Layout Design and obtain an approval **before** incurring costs for detailed building plans and architectural fees.

   The approved layout will state whether a field check of completed grading by County DEH is required. The Approval Sheet expires after one year.

4. Typically, local land use agencies will require submission of the DEH Approval Sheet before any grading or building permits are issued.

   Some projects will require local grading permits and some will not. Requirements for grading permits in the unincorporated area of the County are discussed briefly below. *Approved layouts and OWTS permits are not grading permits.*

5. Before a permit to construct the OWTS can be issued, the applicant must provide County DEH proof that a potable water supply is available for the project. Potable water in this context is water that meets bacteriological and nitrate water quality standards as defined in the California Safe Drinking Water Act for a private residence. In some situations, additional water quality testing may be required.

6. Building plans, bearing the appropriate stamp which documents plan submittal to the local land use agency, must be submitted to County DEH. The plans need not be approved by the local land use agency before being submitted to County DEH, but any significant plan amendments should be provided to DEH. County DEH will review these plans to ensure that they correspond to the project described in the approved Layout Design.

7. If the local land use agency does not require a grading permit, and the requirements set out above have been met, a permit to construct the OWTS will be issued. This permit expires after one year.

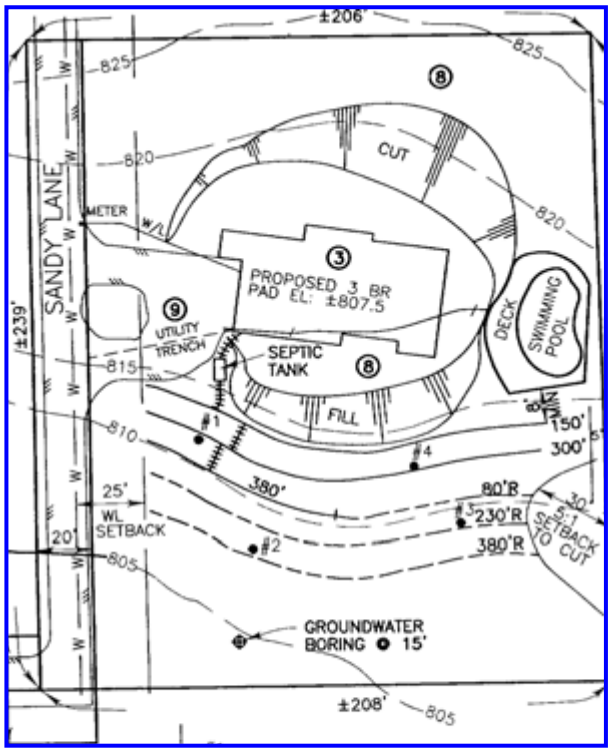
8. If the local land use agency requires submission of a grading plan, and that plan was not submitted to DEH with the Layout Design, the grading plan must be submitted to DEH for review and approval before grading actually begins. DEH will review the grading plan to verify that it is in agreement with the approved Layout Design.

9. If the Approval Sheet for the Layout Design indicates that a field check of complete grading is required, that field check must be completed before a permit to construct the OWTS is issued. If the completed grading is checked and corresponds to the approved layout and the other requirements above have been met, a permit to construct the OWTS will be issued. This permit expires after one year.

10. Once the permit to construct the OWTS, has been obtained, the OWTS can be installed. The system must be inspected by County DEH before the system is backfilled. If that inspection is satisfactory, DEH will sign off on ("final") the OWTS permit (Occasionally, DEH will hold final approval on the OWTS permit pending specific conditions to be met.).

11. In the unincorporated parts of the County, if a building permit relies on an OWTS, County land use agencies will require DEH approval of a layout design and a valid permit to construct the OWTS before building plans are approved or a building permit is issued. Other local land use agencies also typically require that a permit to construct the OWTS be issued before building plans will be approved or a building permit issued.

12. Local land use agencies typically require that the OWTS inspection be completed and the OWTS permit be made final by DEH before occupancy permits are issued.



The Layout Design

A layout design of the proposed building construction and onsite wastewater system is required. This drawing should be prepared using standard engineer's scale on 81/2" x 11" or 11"X17"size paper. The basis for the OWTS design will be from percolation testing data and/or conditions of approval from a recorded subdivision map, parcel map, boundary adjustment, or certificate of compliance. The size of the onsite wastewater system is a function of the number of bedrooms or dwellings and the percolation rate of the soil on the site.

The layout design should contain the following information:

- Site Address;
- Tax Assessor's Parcel Number;
- Owner's Name, mailing address, and phone number;
- Consultant's name, mailing address, and phone number;
- Type of proposed construction (number of bedrooms for home);
- Number of existing or proposed bedrooms;

- Purpose of project (e.g. new dwelling, new structure, guesthouse, an addition, etc.) Specify scope of work;
- Legal Basis of parcel (map and lot number);
- Vicinity Map, Scale, North arrow, Thomas Bros. Map coordinates;
- Property Lines and lot dimensions;
- Topographical lines and elevation points (pad, floor, top leach line, etc);
- Percent slope and direction of fall;
- Proposed OWTS design detail;
- Proposed grading with 5:1 setbacks shown along with any impacts to the site and/or adjacent property. Include energy dissipaters for pad drainage;
- All known, recorded easements on or within 20 feet of lot boundaries (open-space, utility, road, waterline, etc.);
- Identify source of potable water;
- Location of all public waterlines on or within 20 feet of property and signed water line statement;
- Location of all wells on or within 150 feet of property;
- Any soils testing information, such as deep borings or percolation tests, plotted on the design.

The layout or percolation test design approval is valid for one year. The soils testing data does not expire and will be valid in the use of the system design, unless site conditions change. If a site review reveals any evidence of groundwater changes, including but not limited to; plant growth, ponding water, new information on adjacent lots or OWTS failures in the area, additional groundwater test borings may be required. DEH staff will specify the depth and the locations of the additional test borings in consultation with project environmental health specialists, engineers and/or geologists.

- If groundwater is observed in the borings and/or DEH has reason to believe that groundwater could rise to an unacceptable level (within 5 feet of the disposal point) during the course of a normal rainfall season, a permit will not be issued and monitoring may be required. Monitoring must be conducted during the course of a normal rainfall year when full groundwater recharge has occurred.

- The environmental health specialist, engineer or geologist must support their express conclusion that the highest historic groundwater elevation will not encroach upon the 5-foot minimum separation from the bottom of the proposed OWTS. The supporting data shall include, but not be limited to, data on the sites topography, soils, geology, basin studies, hydro geologic studies, and groundwater-monitoring data from the onsite and off site observation wells through a normal rainfall year. [1]

Information on the layout shall also include the septic certification found in one of the following documents: Recorded Map, Parcel Map, Division of Land Plat, Boundary Adjustment, Certificate of Compliance, approved Percolation Test or a Layout with a waiver of percolation testing. ***The certification provided on the legal description does not ensure the lot can be approved for development based on the use of an onsite wastewater system. It only provides a basis on which to size the onsite wastewater system.*** A previously approved, valid layout must reflect the current proposed development of the parcel including dwelling size and location, grading and any recent off-site impacts that may affect septic system siting; otherwise, a field review will be required.

[1] For more information in regards to groundwater see DEH Onsite Wastewater System Groundwater Policy

Primary and Reserve Area Requirements

In addition to primary system design criteria, all OWTS design proposals, for both new construction and additions to an existing structure, must show 100% reserve area for the active OWTS unless the percolation rates require more than 100% reserve area. Refer to the leach line footage charts on accompanying pages.

1 to 60 MPI:	100% Reserve Area	no minimum lot size for existing lots
61 to 90 MPI:	200% Reserve Area	3.0 acre minimum lot size required
91 to 120 MPI:	300% Reserve Area	5.0 acre minimum lot size required

Percolation rates in excess of 120 minutes per inch demonstrate impermeable soil that should not be considered suitable for an OWTS, as this will have a high probability of premature failure.

Any parcels once certified with reserve area smaller than the current standards must meet current design standards.

Septic Tank Sizing Requirements for One Dwelling

DEH recommends that you always size your septic system to accommodate one additional bedroom and that a septic tank effluent filter be installed on the outlet side of the septic tank. The minimum size septic tank is 1,000 gallons for 1 to 3 bedrooms, 1,200 gallons for 4 bedrooms and 1,500 gallons for 5 or 6 bedrooms. This does not apply to second dwellings, which may require an additional septic tank and separate leach field. The layout approval is the approval of the design for the onsite wastewater system and is *not* the permit for the installation.

Second Dwelling Septic Tank Sizing

Since each dwelling can have a kitchen with a dishwasher and garbage disposal, along with a laundry facility, second dwellings are not comparable to an additional bedroom when calculating the size of an OWTS. If a common system is used for both the main house and the second dwelling, the tank size must be calculated as separate flows for each dwelling, even if a common septic tank is used.

The requirements will be as follows:

Main Dwelling	Second Dwelling	Minimum Tank Size
1 BR	1 BR	1000 Gallons
2 BR	1 BR	1200 Gallons
2 BR	2 BR	1500 Gallons
3 BR	1 BR	1500 Gallons
3 BR	2 BR	1500 Gallons
4 BR	1 BR	1500 Gallons
4 BR	2 BR	2000 Gallons

Dwellings that have more bedrooms than the above will require a design with oversized or a battery-type tank, if a common system is being proposed. Separate tanks for each dwelling could be used even if connected to a common disposal field.

Setbacks

Setbacks in layout designs refer to the required spacing in distance from components of the sewage disposal system and to structures, property lines, easements, watercourses, wells, or grading. Specific setback requirements will vary based on the type of system design and site conditions. These are:

System Component	Setback To:	Minimum Distance
Septic Tank	Structure	5 feet
Septic Tank	Property Line	5 feet
Septic Tank	Water Well	100 feet
Leach Lines	Structure	8 feet
Leach Lines	Property Line	5 feet
Leach Lines	Water Lines (Public)	25 feet from edge of easement [1]
Leach Lines	Water Well	100 feet [2]
Leach Lines	Drainage Course	50 feet from top of bank
Leach Lines	Flowing Stream	100 feet from top of bank
Leach Lines	Pond	100 feet from spillway elev.
Leach Lines	Domestic Water Supply Reservoir	200 feet from the high water line [3]
Leach Lines	Aqueduct	100 feet from edge of easement [4]
Leach Lines	Road Easements	8 feet from edge of ultimate easement width [5]
Leach Lines	Cut Slopes	5:1 Setback from top of cut slope [6]
Leach Lines	Septic Tank	5 feet
Leach Lines	Leach Lines	10 feet
Leach Lines	Seepage Pits	15 feet
Seepage Pits	Structure	10 feet
Seepage Pits	Property Line	10 feet
Seepage Pits	Water Lines (Public)	25 feet from edge of easement [1]
Seepage Pits	Water Well	150 feet [2]
Seepage Pits	Drainage Course	50 feet from top of bank
Seepage Pits	Flowing Stream	100 feet from top of bank
Seepage Pits	Pond	100 feet from spillway elev.
Seepage Pits	Domestic Water Supply Reservoir	200 feet from the high water line [3]
Seepage Pits	Aqueduct	100 feet from edge of easement [4]
Seepage Pits	Road Easements	10 feet from edge of ultimate easement width [5]
Seepage Pits	Cut Slopes	5:1 Setback from top of cut slope [6]
Seepage Pits	Septic Tank	5 feet
Seepage Pits	Seepage Pits	20 feet

1. The setback to a domestic water line may increase if the 5:1 setback of the utility trench depth exceeds the 25-ft setback.
2. The minimum setback may be increased if site conditions show the minimum setback is insufficient to protect groundwater supplies.
3. The State Department of Public Health revised their setback criteria to reservoirs and this setback reflects the current recommendation.
4. Any reduction in the Aqueduct setback requires approval from the San Diego County Water Authority or other purveyor, if another district.

5. The setback may increase if the 5:1 setbacks to road cuts are greater than the minimum setback.
6. No part of an onsite wastewater system, with the exception of a septic tank, pump chamber, enclosed filter, or tight sewer pipe, shall be located closer than a 5:1 setback distance to the top of a cut bank, or the edge of an excavation. The horizontal distance would be five times the height of the cut or depth of the excavation. This setback would also be applied to the top of an eroded bank or natural slope in excess of 60%.

Leach Line Linear Footage Requirements

The charts located at the end of this policy show the corresponding length of leach line as a function of percolation rate and the number of bedrooms for a single-family dwelling. *The one-bedroom design lengths correspond to 2nd dwelling systems on a shared system with the main house or its own system.

Seepage Pits

Seepage Pits will require full percolation testing by a licensed civil engineer, registered geologist, or registered environmental health specialist.

- Horizontal seepage pits cannot be used if percolation rates exceed 30 minutes per inch.
- Vertical seepage pits are restricted to coastal sedimentary basins that have saltwater intrusion into the groundwater with TDS levels in excess of 1500 ppm.
- Desert seepage pits are used alluvial areas of the San Diego County desert areas, and percolation testing may be waived.

Grading Plan Review

Upon approval of a layout by DEH, the Specialist will write in the grading line on the approval form indicating whether a field check of completed grading is required prior to issuance of a septic tank permit. Keep in mind that DEH grading approval is not the same as local land use agency grading approval. For the unincorporated parts of the County, some small projects may not require grading permits. For other projects, County land use agencies issue the following kinds of grading permits:

- **Minor Grading**: Processed through the Department of Planning and Land Use (DPLU), Building Division. Please see the Grading Plan Checklist (DPLU: BLDG-009, Rev. 1-99). Phone: (858) 565-5920.

- **Major Grading**: Processed through the Department of Public Works, Land Development Division, Grading Improvements. Please see the Major Grading Plan Checklist. Phone: (858) 694-3281.

Minor and/or major grading plans will be reviewed by DEH prior to grading to determine impacts to the approved onsite wastewater system and adjacent properties. After completion of the grading, the appropriate DEH field office must be contacted to arrange for a field check, unless the field check is waived on the layout approval.

Building Plan Review

The DEH recommends that you obtain approval of your onsite wastewater system prior to expending funds for a final set of architectural plans for your home. Plans for a new or second dwelling must be submitted to the DPLU, Building Division at the Ruffin Road office for processing and approval. Upon approval of the plans, the owner/agent may hand carry the plans to the DEH counter at any of the DEH field offices for a verification of bedrooms and plot plan concurrence with the approved layout. Bedrooms are used to determine the potential occupancy of a dwelling and therefore the potential amount of wastewater that will be generated. Libraries, dens, sewing rooms, recreation rooms and similar rooms may be counted as bedrooms unless the entrance wall is greater than 50% open or other means which eliminate privacy. The presence of a closet is not a determining factor for a bedroom.

GUIDELINES

1. Once the living room, dining room, family room, kitchen, bathrooms, and utility rooms have been established, all other rooms shall be considered as potential sleeping rooms. Dens, libraries, studies, weight rooms, sewing rooms, workshops, etc., shall be determined as bedrooms if they do not conform to the criteria listed below.
2. All other habitable rooms totaling at least seventy (70) square feet in size are to be considered bedrooms suitable for sleeping purposes, regardless of whether or not they contain closets or have access to a bathroom.
3. Rooms that open to a living room, dining room, family room, kitchen, or entry way, and have a single, un-obstructive opening (no doors) with a minimum 50% opening of the total wall space (minimum 6' wide) with archways or other acceptable means shall not be considered as bedrooms, due to the lack of personal privacy presented by the opening.
4. Rooms that can only be accessed through another bedroom are to be considered part of that bedroom, such as master suite and not an additional bedroom.
5. In the case of an ambiguous situation, where it is not clear as to whether or not a room is a bedroom, the plans may be re-reviewed on a case-by-case basis by the area supervisor for the respective district.
6. Any cases, which will require the relocation or modification of doorways, are to be reviewed and approved by the Department of Planning & Land Use to address any structural considerations such as load bearing walls. This is to be done prior to approval or sign-off by the Department of Environmental Health.

Potable Water Supply

DEH will require proof of potable water supply. A public water supply should be confirmed with proof of a service availability letter from the water purveyor. A domestic water well will require proof of potability. A copy of the Well Laboratory Report that indicates the absence of bacteria and nitrate contamination of less than 10 mg/l of Nitrate-N or 45 mg/l of nitrate will be necessary for proof of potability of a private well. The date of the test cannot be more than 1 year old. If a valid test does not exist, the well must be sampled for bacteriological and nitrate levels. Hand-dug water wells will not be accepted as a potable water supply.

DEH staff will collect water samples from private wells, which will be tested at the County of San Diego Public Health Lab. A fee is required for the water sample analysis.

When all applicable items above have been completed to the satisfaction of this Department, a septic tank permit can be issued to the owner/agent or to a contractor with the required license(s) from any of the above-listed DEH offices. The permit is valid for one year.

In order to make septic tank permit processing as smooth as possible, it is recommended that you maintain a record of all paperwork and project control numbers obtained from each Department.

Definitions

Absorption Area:	The amount of land area required to treat a daily discharge of sewage based on percolation rate and design flow, described in square feet.
Aqueduct:	A municipal water pipeline located in an easement for the San Diego County Water Authority and the Metropolitan Water Authority.
Bedroom:	A habitable room totaling at least seventy (70) square feet in size, considered suitable for sleeping purposes, regardless of whether or not the room contains or has access to a closet and a full or ¾ bathroom, and does not directly open to a garage or other bedroom.
Chamber System:	A leach field design that uses a plastic chamber instead of perforated pipe and rock in the excavation.
Circulation Element:	A public road that has been designated by the Department of Public Works as a major traffic collector.
Cut Bank**:**	The vertical distance across of the face of graded slope where soil has been removed.
Daily Sewage Flow**:**	The amount of sewage generated in a 24-hr period,
Drainage Course:	A seasonal stream, eroded channel, lined drainage channel, swale, gully, ravine, dry creek bed, etc.
Easement:	A recorded section of land used for specific purpose or restricted from development such as utilities, roadways, water mains, open-space, drainage, etc.
5:1 Setback:	A horizontal distance 5 times the height of a cut bank or depth of an excavation to an OWTS located up gradient.
Groundwater:	Subsurface water present in the upper soil zones, in the void spaces between soil particles, between confining soil layers, and in aquifers.
Health Dept. Certification:	The sizing requirements for an OWTS established by a previously approved percolation test, recorded land division plat, recorded parcel map, recorded subdivision, boundary adjustment, or certificate of compliance.

Holding Tank: A temporary sewage disposal system consisting of a 1500 gallon septic tank, alarm system, and maintenance contract; intended for a short duration until an approved sewer is installed.

Horizontal Seepage Pit: A component of a sewage disposal system that consist of pre-cast concrete rings within an excavation typically 5-feet wide, and 8-feet deep. Percolation rates cannot exceed 30 minutes per inch.

Leach Line: A component of a sewage disposal system that consist of an 18-inch wide trench, 3 to 5 feet deep, with perforated leach line pipe suspended over a bed of 1.5-inch diameter rock.

Percolation Rate: The amount of time it takes water to be absorbed into the soil within a test boring under controlled, saturated conditions and described in minutes per inch.

Pump Chamber: Typically a modified septic tank used to contain the pump system for a non-gravity sewage disposal system.

Reserve Area: It is an area available for replacement of the active disposal field design. Average percolation rates of 60 minutes per inch or less require 100% reserve area. Percolation rates from 61 to 90 minutes per inch require 200% reserve area. Percolation rates from 91 to 120 minutes per inch require 300% reserve area. Percolation rates greater than 120 minutes per inch are not considered permeable soil. Reserve areas must meet all of the design requirements of a primary system area.

Septic Tank: Used to settle and separate the solids and sewage effluent. Only partial sewage treatment occurs within the septic tank, and the sewage effluent leaving the tank still contains pathogens.

Surge Tank: Receives sewage effluent from the pump chamber to allow gravity-flow into the leach field or seepage pit in a non-gravity system.

Vertical Seepage Pit: A component of a sewage disposal system that is used in coastal, sedimentary basins that are degraded by salt water. Vertical seepage pits must maintain the same separation to groundwater as other conventional designs. Vertical seepage pits are restricted from inland, granitic basins where groundwater is used for a drinking water resource.

DISPOSAL TRENCH LENGTH BASED ON PERCOLATION TEST RESULTS

Percolation Rate Average Time in Minutes/Inch (MPI)
Number of Bedrooms

MPI	1*	2	3	4	5	6
1	200	200	240	270	280	300
2	200	200	240	270	280	300
3	200	200	240	270	280	300
4	200	220	260	290	300	310
5	200	240	290	320	320	340
6	200	250	300	340	350	360
7	210	260	310	350	370	380
8	210	265	320	360	390	400
9	220	270	320	360	400	410
10	220	275	330	370	410	420
11	220	280	340	380	420	430
12	230	285	340	380	430	440
13	230	290	350	390	430	450
14	235	295	350	400	440	460
15	240	300	360	400	450	470
16	240	300	360	410	450	490
17	240	305	370	410	460	500
18	250	310	370	420	460	510
19	250	310	380	420	470	520
20	250	315	380	430	470	520
21	260	320	380	430	480	530
22	260	320	390	440	480	530
23	260	325	390	440	490	550
24	260	330	400	450	500	560
25	260	330	400	450	500	560
26	270	335	400	450	510	570
27	270	340	410	460	515	575
28	270	340	410	460	515	575
29	270	345	420	470	525	585
30	280	350	420	470	525	585
31	280	350	420	480	535	595
32	280	355	430	480	535	595
33	290	360	430	490	545	605
34	290	360	440	490	545	605
35	290	365	440	500	555	615
36	300	370	440	500	555	615
37	300	370	450	500	555	615
38	300	375	450	510	565	625
39	300	380	460	510	565	625
40	300	380	460	520	575	635

Percolation Rate Average Time in Minutes/Inch (MPI)
Number of Bedrooms

MPI	1*	2	3	4	5	6
41	310	385	460	520	575	635
42	310	390	470	530	585	645
43	310	390	470	530	585	645
44	310	395	480	540	595	655
45	320	400	480	540	595	655
46	320	400	480	540	595	655
47	320	405	490	550	605	665
48	330	410	490	550	605	665
49	330	410	500	560	615	675
50	330	415	500	560	615	675
51	340	420	500	560	615	675
52	340	420	510	570	625	685
53	340	425	510	580	635	695
54	340	430	520	580	635	695
55	340	430	520	580	635	695
56	350	435	520	590	645	705
57	350	440	530	590	645	705
58	350	440	530	600	655	715
59	350	445	540	600	655	715
60	360	450	540	610	665	725
61	370	460	550	620	690	740
62	380	470	560	630	680	720
63	390	480	570	640	690	730
64	400	490	580	650	700	740
65	420	500	580	660	710	750
66	420	510	600	670	720	760
67	430	520	610	680	730	770
68	440	530	620	690	740	780
69	450	540	630	700	750	790
70	460	550	640	710	760	800
71	470	560	650	720	770	810
72	480	570	660	730	780	820
73	490	580	670	740	790	830
74	500	590	680	750	800	840
75	510	600	690	760	810	850
76	520	610	700	770	820	860
77	530	620	710	780	830	870
78	540	630	720	790	840	880
79	550	640	730	800	850	890
80	560	650	740	810	860	900

Percolation Rate Average Time in Minutes/Inch (MPI) Number of Bedrooms

PI	2	3	4	5	6
81	660	750	820	870	910
82	670	760	830	880	920
83	680	770	840	890	930
84	690	780	850	900	940
85	700	790	860	910	950
86	710	800	870	920	960
87	720	810	880	930	970
88	730	820	890	940	980
89	740	830	900	950	990
90	755	845	915	965	1005
91	770	860	930	980	1020
92	785	875	945	995	1035
93	800	890	960	1010	1050
94	815	905	975	1025	1065
95	830	920	990	1040	1080
96	845	935	1005	1055	1095
97	860	950	1020	1070	1110
98	875	965	1035	1085	1125
99	890	980	1050	1100	1140
100	905	995	1065	1115	1155
101	920	1010	1080	1130	1170
102	935	1025	1095	1145	1185
103	950	1040	1110	1160	1200
104	965	1055	1125	1175	1215
105	980	1070	1140	1190	1230
106	995	1085	1155	1205	1245
107	1010	1100	1170	1220	1260
108	1025	1115	1185	1230	1270
109	1040	1130	1200	1250	1290
110	1055	1145	1215	1265	1305
111	1070	1160	1230	1280	1320
112	1085	1175	1245	1295	1335
113	1100	1190	1260	1310	1350
114	1115	1205	1275	1325	1365
115	1130	1220	1290	1340	1380
116	1145	1235	1305	1355	1395
117	1160	1250	1320	1370	1410
118	1175	1265	1335	1385	1425
119	1190	1280	1350	1390	1440
120	1210	1300	1370	1420	1460

ATTACHMENT C

Acorn Environmental

Walker, Walker II, and Salerno Impact Analysis

Geotechnical Investigation Alpine Clinic South

GEOTECHNICAL INVESTIGATION
ALPINE CLINIC SOUTH
ALPINE, CALIFORNIA

File No. 24803

March 9, 2001

SUMMIT ™ ENGINEERING CORPORATION

Prepared For:

Mr. Bill Morris
Morris & Brown Architects
105 E. Reno Avenue #1
Las Vegas, NV 89119

Prepared By:

Summit Engineering Corporation
5405 Mae Anne Avenue
Reno, Nevada 89523

REGISTERED GEOLOGIST
TRYGVE LOKEN
No. EG 1811
CERTIFIED ENGINEERING GEOLOGIST
STATE OF CALIFORNIA

exp 6-30-01

Trygve Loken, C.E.G.
Engineering Geologist

Jack K. Glynn III, P.E.
Geotechnical Manager

SUMMIT ENGINEERING CORPORATION

March 9, 2001 Job No. 24803

Mr. Bill Morris
Morris & Brown Architects
105 E. Reno Avenue, #1
Las Vegas, NV 89119

RE: Geotechnical Investigation
Alpine Clinic-South

Dear Mr. Morris:

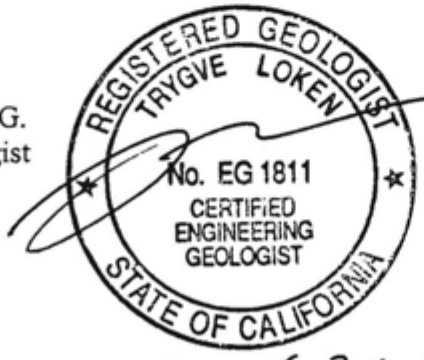
The attached report presents the results of the Geotechnical Investigation for the proposed Alpine Clinic-South for the Ewiiaapaayp tribe near Alpine, California.

The building site is underlain by deeply weathered granitic bedrock. These materials will provide adequate foundation support. There are not any identifiable geologic hazards which preclude development of this site. The following report presents geotechnical recommendations for the design and construction of the project.

We wish to thank you for the opportunity of providing our services. We are readily available to answer questions related to our report and conclusions.

Sincerely,

SUMMIT ENGINEERING CORPORATION



Trygve Loken, C.E.G.
Engineering Geologist

TL:bjg

Enclosures

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Direct Shear Test Results
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GEOTECHNICAL INVESTIGATION
ALPINE CLINIC-SOUTH
SAN DIEGO COUNTY, CALIFORNIA

I. INTRODUCTION

A. Project Description

This report presents the results of a geotechnical investigation for the proposed Health Clinic to be constructed for the Ewiiaapaayp tribe near Alpine, California. The site is located in the S.E. 1/4 of Section 25, Township 15 South, Range 2 East, S.B.B. & M. Plate 1 provides a vicinity map and Plate 2 provides a site map.

This investigation provides site-specific geotechnical design criteria for the proposed structure and associated development. It is anticipated that the clinic structure will be of a 1 to 2 story steel frame construction with a concrete slab-on-grade floor and the total square footage will be 23,700 square feet with 2,700 square feet of day care facility. The roof will be structural steel joists and girders. Rick Yeh of Marshall Erdman provided the following structural loads:

	One Story	Two Story
Interior Column	41 kips	140 kips
Exterior Column	20 kips	100 kips
Exterior Wall	0.5 k/lf	0.7 k/lf

If any structures are to be constructed that will have heavier loads than those described or will have special foundation considerations not addressed in this report, an engineering geologist should review the soil design criteria of this report.

Design details were not complete at the time of preparation of this report. The magnitude of all cuts and fills is not known, but due to the existing topography they will be minor. Paved access drives, parking, and landscaping are to be provided. The Clinic will be served by an on-site septic tank and leach field.

B. Purpose and Scope

The purpose of this investigation was to determine general subsurface soil and bedrock conditions and to provide geotechnical design criteria based upon our findings for the proposed project. The scope of this investigation included surface reconnaissance, subsurface exploration, analysis of field and laboratory data, research of pertinent geologic literature, and report preparation. This report provides conclusions and recommendations concerning:

- General subsurface conditions and geology
- Site preparation and earthwork
- Engineering properties of the soils, which will influence the design of the future structures, including:
  - Bearing Capacities
  - Settlement potential
  - Lateral earth pressures
  - Asphalt concrete and concrete pavement
  - Seismic design criteria

C. Field Exploration and Laboratory Testing

Summit Engineering Corporation conducted the subsurface investigation by advancing a total of 1 boring to a maximum depth of 21.5 feet. Equipment used was a CME 75 truck mounted hollow stem auger drill rig. Samples and blow counts were obtained at regular intervals using the Standard Penetration Test (ASTM D1586). Blow counts obtained are indicative of density and consistency of the heavily weathered bedrock. Due to the heavy seasonal rain, the drill rig was not able to maneuver freely. A rubber-tired backhoe (Cat 416D) was used to complete exploration by the excavation of 7 test pits to a maximum depth of 14 feet. Geotechnical staff logged the soils and subsurface bedrock conditions encountered. Two of the test pits were also used for percolation testing to provide design criteria for the leach field. Percolation test results are included in the Appendix. Plate 1 shows the vicinity map and Plate 2 presents the site map and the locations of the test pits. Plates 3 through 10 show the vertical profiles (Logs of Borings and Test Pits) of the soils encountered. Plate 11 provides a key to the logs and a copy of the Unified Soil Classification System, which was used to identify the site soils.

Representative samples were obtained for laboratory testing. The laboratory-testing program consisted of: 1) gradations (ASTM D422), 2) in-place moisture contents (ASTM D2216), and 3) Atterberg limits tests (ASTM D4318) to confirm field soil classifications. These index tests are indicative of the soils' mechanical properties, and when correlated to standard engineering charts, the results may be used to estimate bearing capacities and settlement characteristics. One R-value test (ASTM D2844) was conducted to determine subgrade strength characteristics for the design of flexible pavement. One sample was also submitted for direct shear testing (ASTM D3080) to provide material strength data to aid in foundation design. Results of the laboratory tests are shown on the exploration logs and are presented graphically on Plates 12 through 18. Direct shear test results are included in the Appendix.

Near surface soil samples were also tested for laboratory resistivity determinations. Resistivity measurements were conducted using a Nilsson Soil Resistance Meter, Model 400, with a Miller Soil Box. Test results are recorded below:

Sample Location	Resistivity at In-Place Moisture (ohm-cm @ Percent Moisture)	Resistivity Saturated (ohm-cm)
TP-1 1-2 ft.	29,000 @ 13.3	21,000
TP-2 13-14 ft.	42,000 @ 8.6	5,800
TP-3 9-10 ft.	65,700 @ 21.0	6,100
TP-5 5-6 ft.	29,000 @ 8.0	5,590
BH-1 15-16.5 ft.	33,000 @ 16.0	4,400

These high resistivity results do not indicate a corrosive environment for steel pipe, or any deleterious effects on Portland Cement Concrete.

All laboratory testing was conducted in accordance with ASTM standards.

II. DISCUSSION

A. Site Description

The Alpine Clinic South site consists of an irregularly shaped parcel of approximately 18.1 acres on a relatively flat field. There are no structures on this site at this time. A barbed wire fence borders the field on the northwest, north, and northeast sides with a dry wash bordering the south side.

The property is located directly south of Alpine Boulevard. Access to the site is from a paved driveway through a residential area, which ends at a gate. From the gate to the site the road is dirt. Topographically this site gently slopes to the northwest. Vegetation consists of thick grass with oak trees. Relief across this entire portion varies from 2,175 to 2,190 feet above sea level. Drainage is primarily by sheet flow to the northwest.

B. General Geology

The Alpine Clinic South site is located in granitic rocks of the Peninsular Range of South-Central San Diego County, California. It consists mainly of Cretaceous granitic intrusive rock, which intruded earlier metamorphosed sedimentary and intrusive rocks. This large plutonic complex extends from southwestern California into Baja, California and consists of a large variety of intrusive rocks and minor metamorphosed country rock. The batholith consists of a normal sequence of 11 igneous rock units ranging from olivine-rich gabbro to granite. Localized pegmatite dikes and gold bearing quartz veins are noted. Following emplacement, the batholith was uplifted along mostly northwest trending systems of normal faults, and eroded to the present day topography. The only units younger than Cretaceous consist of Quaternary alluvium (soil).

The intrusive rock at the site has been mapped (Geologic Map of the Cuyamaca Peak Quadrangle, 1946) as the Green Valley tonalite. This unit consists of an equigranular hornblende-quartz diorite with a salt and pepper texture. This rock is noted to be unusually susceptible to deep weathering by the Division of Mines Bulletin 159 (1951).

Following emplacement, a period of uplift, tilting, and erosion ensued, leading to the present day topography. Exposure of these rocks has lead to weathering. Granitic rocks typically weather erratically, and to great depths. Weathering is initiated along fractures and proceeds into the rock mass. Biotite micas alter and expand with contact with ground water. This expansion of biotite leads to microfractures in the rock, which progressively breaks the rock into sand-sized soil. These weathering effects can persist to great depths from the present day surface. Due to the availability of water and joints (fractures) in the rock mass, weathering in granite becomes erratic, and zoned, both vertically and horizontally. Resistant rock (corestones) will be observed near the surface, with heavily weathered bedrock (decomposed granite sand) surrounding the corestones. From our observations and literature review, the Green Valley tonalite weathers to great depths, and with fewer resistant corestones than other granitic units in the site vicinity.

C. Regional Seismicity

The subject property lies within the Uniform Building Code Seismic Zone 4. This zone has a high probability for a major seismic event. Southern California is well noted for it's seismic activity. Structures in this area may be subject to damage such as that occurring during an average event in excess to a Modified Mercalli Intensity of VIII. This size event approximately correlates to a Richter Magnitude in excess of 7.2.

Most geological consultants follow the conventions established by the Alquist-Priolo Act of 1972 in Calif., which defined faults with evidence of movement in Holocene time (past 11,000 to 12,000 years) as active. Those faults with evidence of displacement during Pleistocene time (12,000 to 1,800,000 years ago) would be considered potentially active. Normally, any fault suspected of being active poses a greater risk to development and is afforded a greater degree of study and analysis than those regarded as potentially active.

Review of the 1990 revision of the Alquist-Priolo Special Studies Zones Act of 1972 shows that there are not any faults zoned for special studies located closer than 5 miles (8 km.) from the site. Ewiiaapaayp is located about 18 miles (29 km) to the southwest of the potential major earthquake producing faults along the Elsinore Fault Zone branch of the northwest trending San Andreas fault zone, as shown on the San Diego-El Centro sheet. In the 200-year history of seismic monitoring in Southern California, only 2 moderate magnitude earthquakes have been attributed to the Elsinore Fault Zone, both occurring in May 1910. Further monitoring clearly documents seismic activity on the Elsinore is significantly less than other adjacent strands of the San Andreas (S.S.A. 1992). Earthquake hypocenters generally are concentrated below the Aqua-Tibia Mountains, averaging about 1 small event per month (ML < 1.5) at depths greater than 8 km (S.S.A., 1992). One small fault splay trending east west near Descanso is located about 5 miles

from the site, as shown on the Fault Activity Map of California and Adjacent Areas (1994). This fault is interpreted to have experienced movement in the last 1.6 million years. This potentially active fault (Seismic Source Type C) is numbered 494A in the Alquist-Priolo special studies zoning act. This fault is part of a series of unnamed faults.

Since the site is located at reasonably large distances from hazardous active earthquake faults established in the literature, seismic design for the structure should follow the Uniform Building Code criteria established for Zone 4. Near source factors will not be applicable for seismic design (N_a = 1.0; N_v = 1.0). The appropriate Soil Profile Type is S_D for a stiff soil profile. Liquefaction potential at the site is considered nil, due to the site's location in bedrock, and the anticipated great depth to the ground water table.

D. Subsurface Materials and Conditions

Overburden soil development is fairly thin across the site, and averages 3 to 4 feet thick. Topsoil and grass root thickness are generally 1 to 2 feet. This material consists of silty sand with approximately 30% non-plastic silt.

Near surface bedrock has been heavily weathered to a soil-like consistency. Borehole 1 encountered heavily weathered decomposed tonalite bedrock to depths varying from 3 to 21.5 feet. The heavily weathered bedrock (D.G.) consists of silty sand with 10-30% nonplastic silt.

Clayey sand was noted in Bore Hole 1 from 15 to 21.5 feet. This material has a plasticity index of 11 and 45.3 percent passing the number 200 sieve. Expansive clay soils or hydro collapsible soils were not identified by our exploration and laboratory-testing program.

Three percolation tests were performed from 4 to 10 feet in depth. The results ranged from 12 to 30 minutes per inch. The following table presents results of our percolation testing.

Location	Test Depth	Percolation Rate
TP-5	4 (ft)	28.0 (min/in)
TP-5	6 (ft)	30.0 (min/in)
TP-6	10 (ft)	12.6 (min/in)

Conventional leach field construction should use a design percolation rate of 30 minutes per inch. Percolation testing was conducted in general conformance to the U.S. Environmental Protection Agency Design Manual EPA 625/1-80-012.

E. Ground Water and Surface Hydrology

The site area has a semiarid climate with warm, dry summer and mild winters. Precipitation is unevenly distributed throughout the year and most occurs between November and April. Due to the thick, heavily weathered permeable bedrock, no ground water was encountered in the drill hole or the test pits. The regional ground water table will not impact construction at this site.

III. CONCLUSIONS AND RECOMMENDATIONS

The structure shall be designed for UBC (1997) Seismic Zone 4, with a soil profile type of S_D (stiff soil profile). The contractor is responsible for locating and protecting (or abandoning) any existing utilities on site. The following sections present conclusions and geotechnical recommendations concerning the proposed project.

A. Foundation Considerations

Analysis obtained from field and laboratory testing indicates that structural fill or recompacted residual soil can support up to 3,000 pounds per square foot for dead plus long term live loads, on spread type footings with less than 1 inch of total settlement and less than 1/2 inch of differential settlement across the length of the structures. This net maximum allowable bearing capacity may be increased by 1/3 for transient live loads, including wind and seismic. All foundation preparation shall be carried out following the recommendations of the following Grading and Filling Section.

The design coefficient of friction is 0.45, passive soil pressure can be calculated using an equivalent fluid weight of 350 pounds per cubic foot per foot of depth, and active soil pressure can be calculated using an equivalent fluid weight of 35 pounds per cubic foot per foot of depth. The at-rest condition value is 50 pcf/ft. These values are based on footings bearing on and backfilled with structural fill. All exterior footings shall be placed 1.5 feet (minimum) below adjacent finished grade for confinement.

B. Grading and Filling

All structural areas should be stripped and grubbed of existing vegetation, which consists of native grasses, brush and oak trees. A stripping depth of approximately 0.4 to 0.6 feet should be anticipated. Tree stumps and roots will require complete removal from structural areas. This material (topsoil and strippings) may not be reused as structural fill nor may it be placed as fill in nonstructural areas, but it may be stockpiled for reuse in landscaped areas. Brush and trees may be chipped and reused as mulch. All debris, fences, and the like should be removed from the site. All areas (soft, soil–like bedrock) to receive structural fill or structural support should be moisture conditioned and recompacted to at least 90 percent relative compaction (ASTM D1557). Hard, durable bedrock in cut (if encountered) will only require removal of material loosened by excavation. Any soil too coarse for conventional density testing shall be proof rolled with 3 complete passes with a self-propelled sheepsfoot compactor. The final surface shall be smooth and firm.

If wet weather construction is anticipated, surface soils may be well above optimum moisture and impossible to compact. Stabilization may be possible by scarifying the top 12 inches of subgrade and allowing it to air dry prior to compaction. If this procedure is ineffective or if construction schedules preclude delays, then mechanical stabilization will be necessary. Mechanical stabilization may be achieved by overexcavation and/or placement of an initial 12- to 18-inch thick lift of 12-inch minus to 3-inch plus, well-graded and angular rock fill. The more angular and well graded the rock is, the more effective it will be. This fill should be densified with large equipment, such as a self-propelled sheeps-foot or a large loader, until no further deflection is noted. Additional lifts of rock may be necessary to achieve adequate stability.

As an alternate, overexcavation and a geotextile/gravel system may be used for stabilization. The geotextile should meet or exceed the following minimum properties.

Minimum Average Roll Strength Properties for Geotextile

Trapezoid Strength (ASTM D 4533)	80 lbs.
Puncture Strength (ASTM D 4833)	120 lbs.
Burst Strength (ASTM D 3786)	380 psi.

A minimum of 18 inches of imported coarse stabilizing fill should be placed above the geotextile. Additional lifts of stabilizing fill may be necessary. The stabilizing fill should meet the following guideline specifications:

Guideline Specifications for Stabilizing Fill Over Geotextile

Sieve Size	Percent by Weight Passing
3 Inch	100
3/4 Inch	50-100
No. 4	30-70
No. 200	0-8

A test section is recommended to determine the required thickness of stabilization. Any stabilization required is anticipated to be localized, and will vary with the season of construction.

The following guideline specification is provided for imported structural fill. These specifications are advanced to provide a pre-qualified imported structural fill. Other materials may be suitable, but will require approval from the engineering geologist prior to importing to the site.

Imported Structural Fill Specifications

Sieve Sizes	Percentage Passing (by weight)
*6 Inch	100
*4 Inch	100
3/4 Inch	70-100
No. 40	15-70
No. 200	5-30
Liquid Limit (max.)	40
Plastic Index (max.)	12

*6-Inch maximum for mass grading, 4-Inch maximum for trench backfill.

All structural fill shall be placed in 8-inch maximum loose lifts, moisture conditioned, and densified to at least 90 percent compaction, relative to ASTM D 1557. The native granular soils and excavated soft bedrock may be re-used as structural fill provided oversized particles (6-inch diameter) are removed. Our exploration did not encounter any significant quantity of hard corestones in this weathered granitic bedrock. The vast majority of site material will break up into sand during site grading. Grading at this site could potentially produce some minor quantity of oversized boulders from corestones in the weathered bedrock zone. Coarse material generated from on-site grading may be reused as structural rock fill. This material cannot be density tested with a nuclear densometer. Fill acceptance will be based on moisture conditioning, lift thickness, and applied compactive effort. Sufficient fines must be present to fill all voids between cobble and boulder sized particles. Initially, we recommend a maximum particle size of 18-inches for a maximum lift thickness of 2 feet, compacted by a Cat 815 or 825-sheepsfoot compactor. A proof-rolling program of 5 complete passes can be used to establish compactive effort. Larger diameter rock and thicker lifts may be authorized if the contractor can demonstrate adequate compaction and the filling of all voids between oversized material. Rock fill should not be placed within 2 feet of footing grade, slab subgrade, or pavement subgrade. All non-structural fill shall be densified to at least 85 percent relative compaction (ASTM D 1557) to minimize consolidation and erosion.

C. Trenching and Excavation

Our exploration did not encounter hard bedrock requiring blasting. All trenching shall be conducted in accordance with local, state, and federal OSHA standards. Near surface soils encountered during exploration of the site generally classified as a Type B soil. Underlying soft to firm bedrock is classified as Stable Rock. Near vertical trench sidewalls should be stable to a depth of about 3 feet at this site in soil-like material.

The following table is reproduced from Occupational Safety and Health, Subpart P, 1926.652, Appendix B:

TABLE B-1

MAXIMUM ALLOWABLE SLOPES

SOIL OR ROCK TYPE	MAXIMUM ALLOWABLE SLOPES (H:V) [1] FOR EXCAVATIONS LESS THAN 20 FEET DEEP [3]
STABLE ROCK	VERTICAL (90θ)
TYPE A [2]	3/4:1 (53θ)
TYPE B	1:1 (45θ)
TYPE C	1 1/2:1 (34θ)

NOTES

1. Numbers shown in parentheses next to maximum allowable slopes are angles expressed in degrees from the horizontal. Angles have been rounded off.

2. A short-term maximum allowable slope of 1/2 H: 1V (63θ) is allowed in excavations in Type A soil that are 12 feet (3.67 m) or less in depth. Short-term maximum allowable slopes for excavations greater than 12 feet (3.67 m) in depth shall be 3/4 H: 1V (53θ).

3. Sloping or benching for excavations greater than 20 feet deep shall be designed by a registered professional engineer.

Bedding and initial backfill to a foot above the pipes may require import to meet the specifications of the pipe manufacturer or of the utility having jurisdiction. Native granular soil (excavated bedrock) may be reused as final backfill, provided particles larger than 4 inches in diameter are removed. In structural areas, all trenches should be backfilled in 8-inch maximum loose lifts, densified to at least 90 percent relative compaction (ASTM D 1557).

D. Slope Stability and Erosion Control

It is anticipated that only minor cuts and fills are to be made to finished grade for this project. The results of our exploration and laboratory testing confirms 2:1 (H:V) fill slopes will be stable. Soft bedrock (in-cut) will be stable at 1:1 cut slopes. The engineering geologist should be consulted for the applicability of steeper cut slopes in hard bedrock. All areas disturbed by construction will require erosion protection. Erosion protection may be provided by revegetation, landscaping, or riprap. Fill slopes steeper than 2:1 will

require mechanical stabilization, such as stepped retaining walls. Cut slopes may be stabilized by terraced retaining walls, configured at an overall 1:1 slope orientation. Reinforced earth walls (such as Keystone®) are also an excellent alternative to standard cantilever retaining walls when constructed in fills. All cut and fill slopes will require brow ditches to divert surface drainage away from the slope face.

E. Site Drainage - Surface and Subsurface

Positive surface drainage shall be provided away from the structure and in all paved areas to prevent pooling of water. Roof drains and downspouts should discharge on paved areas or well away from foundation areas in order to improve foundation performance. Landscaping islands or planter beds should be designed and constructed to limit irrigation water infiltration beneath pavement. Saturation of the pavement subgrade will lead to early failure of the pavement structural section.

Retaining walls in landscape areas may be designed using the values presented in the Foundation Considerations section. Dependent upon final design grades and materials to be retained, the lateral soil pressure values could be modified. Solid bedrock retained will not generate these high design values, provided soil backfill behind the wall is limited to less than half the wall height. All retaining walls will require a subsurface and behind-the wall drainage system. These systems may consist of a geocomposite, or the traditional free-draining crushed rock backfill and a perforated pipe sloped to drain to daylight (French Drain).

F. Concrete Slabs

Type I, II, or IP cement may be used for all concrete work. A sulfate resistant mix design will not be required.

Concrete slab-on-grade pavement should be a minimum 6 inches thick in truck and bus traffic areas and 5 inches thick in automobile only traffic areas. These recommendations are for an unreinforced PCC pavement based on a minimum 28-day flexural strength of 600-psi mix design. Use of nylon fiber reinforcement in the concrete is highly recommended. The project structural engineer should be consulted for expansion joint and crack control sawcut requirements.

All concrete flatwork should be underlain by a minimum 4-inch thick base course. Concrete slab-on-grade pavement should be underlain by a minimum 6-inch thick base course. The imported base material should consist of a granular material with a minimum R-value of 60. Class 2 aggregate base is the preferred material, although other materials maybe available locally which meet the specified R-value. All aggregate bases beneath concrete slabs shall be densified to at least 95 percent compaction, relative to ASTM D1557.

Particular care should be taken during hot weather construction (curing) to prevent curling and cracking of concrete slabs. All placement and curing should be performed in accordance with the procedures outlined by the American Concrete Institute. All concrete for interior slabs and foundations shall meet criteria established by the project structural engineer. A k-value of 200 pci is appropriate for design of slabs-on-grade.

G. Asphaltic Concrete Design

A performance minded approach was taken for pavement design. The majority of subgrade support is anticipated to be provided by residual soil or structural fill. An R-value of 26 is reported for a test of likely subgrade material. Anticipated traffic loading or subgrade support are not the deciding factors for this pavement design. Rather, a balance of initial construction cost versus anticipated required future maintenance is the major consideration. The pavement section provided assumes a 20-year average design period, with appropriate regular maintenance, such as crack filling and seal coating. Subgrade material shall be compacted to at least 90 percent, and aggregate base material shall be compacted to at least 95 percent relative compaction (ASTM D1557).

A structural section of 3 inches of asphaltic concrete underlain by 6 inches of Class 2 aggregate base is recommended for parking areas at this project. A structural section of 4 inches of asphaltic concrete underlain by 6 inches of Class 2 aggregate base is recommended for areas to receive heavier loading, such as entry lanes and the area in front of the garbage dumpster. As an alternate, full-depth asphaltic concrete structural sections of 4 inches and 5 inches of asphaltic concrete may be used for automobile and bus / truck traffic areas, respectively. The full depth asphaltic concrete structural sections are a viable option, due to the sandy subgrade conditions. Omitting the base course will also limit the migration of moisture beneath pavement.

A 1/2-inch gradation is recommended for all parking areas for a smoother, more flush finished surface which is less susceptible to moisture penetration. A coarse aggregate gradation may be used for the access road. Asphalt cement in local use is AC-20.

H. Anticipated Construction Problems

The site soils and soft bedrock are excavatable by conventional construction equipment. Hard and massive bedrock, which requires blasting, is not anticipated to the proposed depths of cut. Stabilization of near surface soils will likely be required during wet weather construction. Perched shallow ground water may be encountered in deep cuts during wet season construction. The potential for dust generation is moderate.

Above ground and underground utilities, including power, cable TV, fiber optic lines, water lines, septic systems and leach fields will need to be located, protected, and/or abandoned.

LIMITATIONS

Our services consist of professional opinions and recommendations made in accordance with generally accepted soil and foundation engineering principles and practices. The analyses and recommendations contained in this report are based on our site reconnaissance, the information derived from our field exploration and laboratory testing, our understanding of the proposed development, and the assumption that the soil conditions in the proposed building and grading areas do not deviate from the anticipated conditions.

Unanticipated variations in soil conditions could exist in unexplored areas of the site. If any soil or groundwater conditions are encountered at the site, which are different from those, discussed in this report, our firm should be immediately notified so that our recommendations can be modified to accommodate the situation. In addition, if the scope of the proposed construction, including proposed loads or structural location, changes from that described in this report, our firm should be notified.

Recommendations made in this report are based on the assumption that an adequate number of tests and inspections will be made during construction to verify compliance with these recommendations. Such tests and inspections should include, but not necessarily be limited to, the following:

- Review of site construction plans for conformance with soils investigation.
- Observation and testing during site preparation, grading, excavation and placement of fill.
- Observation and testing of materials and placement of asphalt concrete and site concrete.
- Foundation observation and review.
- Consultation as may be required during construction.

The findings in this report are valid as of the present date; however, changes in the conditions of the property can occur with the passage of time, whether they are due to natural processes or to the works of man on this or adjacent lands. In addition, changes in applicable or appropriate standards occur, whether they result from legislation or from the broadening of knowledge. Accordingly, the findings in this report might be invalidated, wholly or partially, by changes outside of our control.

REFERENCES

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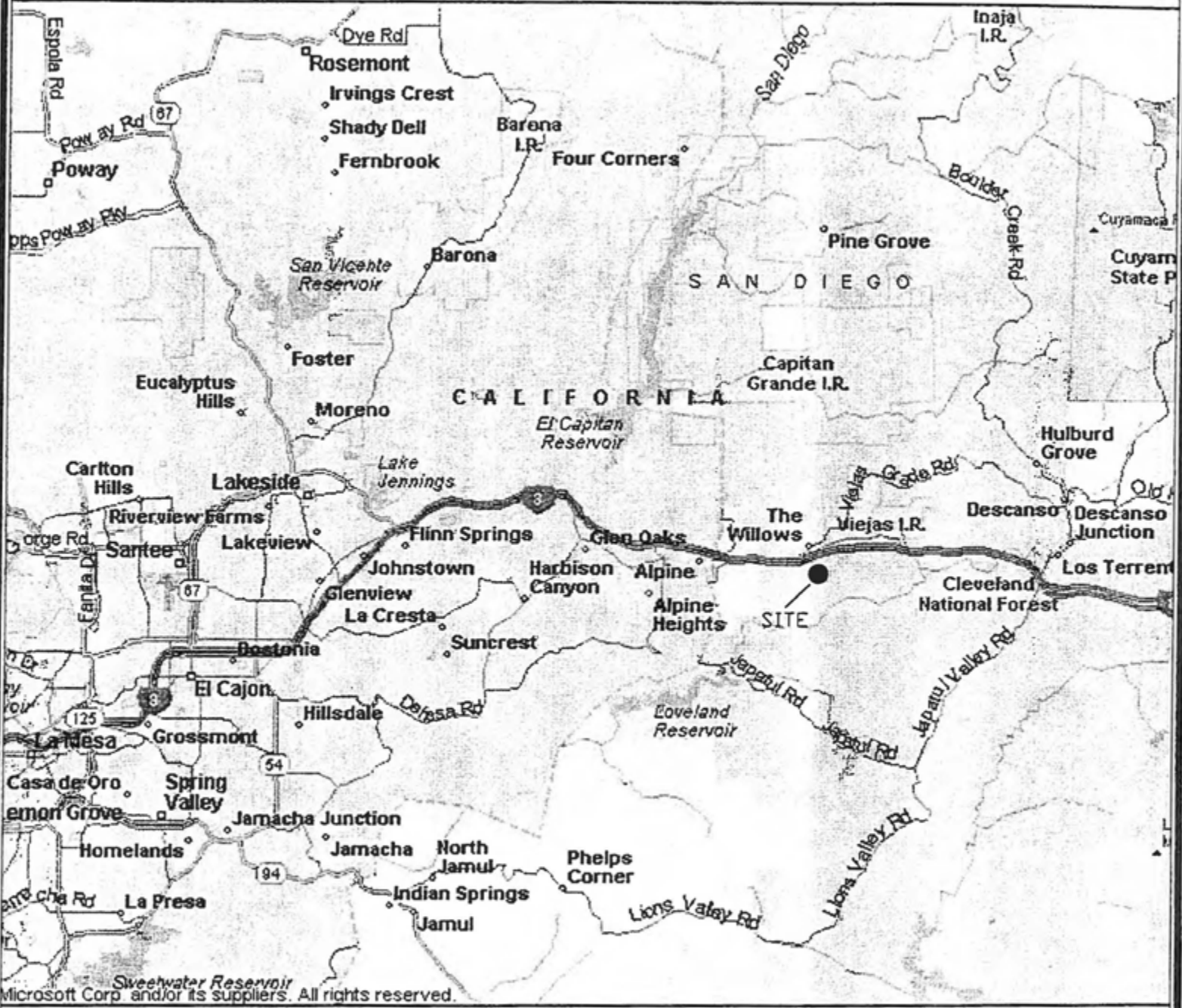
PLATES



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VICINITY MAP
ALPINE CLINIC / SOUTH
ALPINE, CALIFORNIA

JOB NO:	24803
APPRL:	TL
BY :	TMH
	3-MARCH-2001

SUMMIT ENGINEERING CORPORATION
5405 MAE ANNE AVE. RENO, NV. 89523

SHEET 1 OF 18

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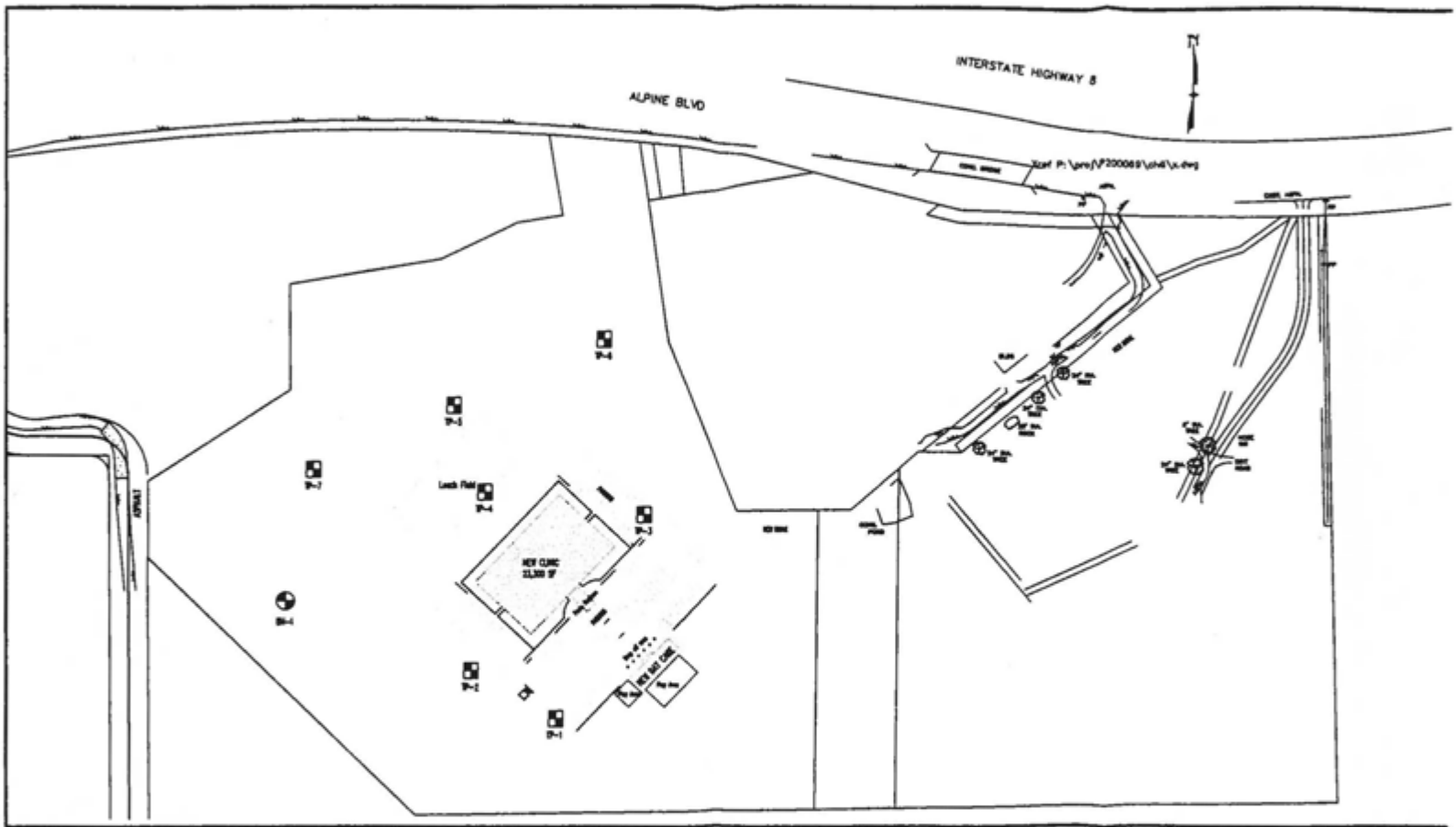
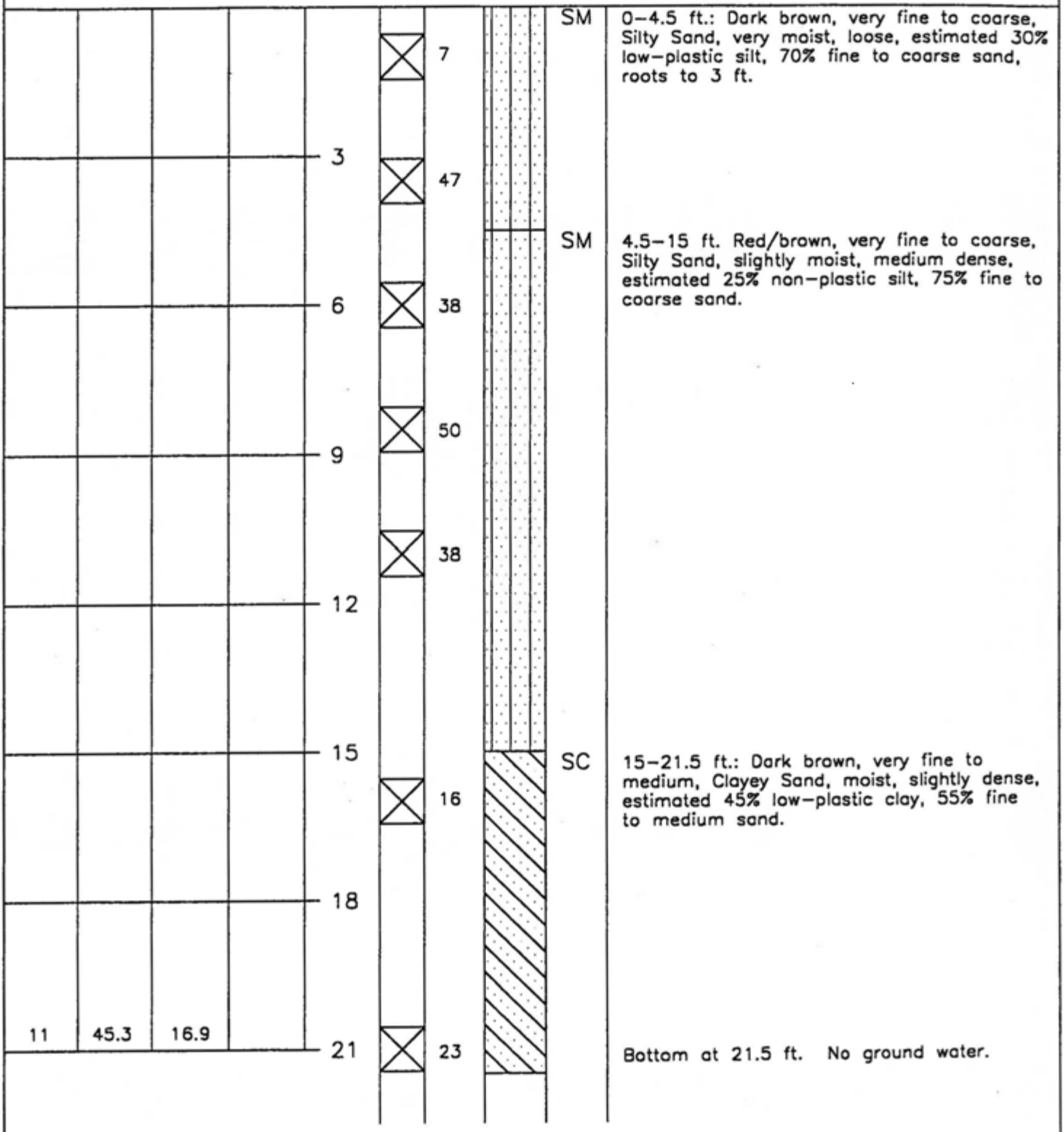


SUMMIT ENGINEERING CORPORATION	SCALE: 1"=140'	DESIGNED BY:	SITE MAP ALPINE CLINIC / SOUTH ALPINE, CALIFORNIA
3405 MAE ANNE AVE, RENO, NV. 89523	JOB #: 24803	CHECKED BY: TL	SHEET 2 OF 18
	Copyright SUMMIT ENG 2001	DRAWN BY: TMH	
	N:\DWGS\Edit\C1BASB.DWG ~ 10:29 AM ~ 09-MAR-2001		

LOG OF BORE HOLE 1

EQUIPMENT: CME 75

DATE: 3-2-01 ELEV. 2185'



0-4.5 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.

4.5-15 ft. Red/brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non-plastic silt, 75% fine to coarse sand.

15-21.5 ft.: Dark brown, very fine to medium, Clayey Sand, moist, slightly dense, estimated 45% low-plastic clay, 55% fine to medium sand.

Bottom at 21.5 ft. No ground water.

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-2-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 3

LOG OF TEST PIT 1

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2186'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
				2	X		SM	0-3.5 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.
				4			SM	3.5-12 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 22% non-plastic silt, 78% fine to coarse sond.
				6				
				8				
				10				
	22.3	8.6		12	X			Bottom at 12 ft. No ground water.
				14				

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

APLINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 4

LOG OF TEST PIT 2

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2181'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
				2			SM	0–4 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.
				4				3–4 ft.: Slightly dense.
				6			SM	4–14 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non-plastic silt, 75% fine to coarse sand.
				8				
				10				9–14 ft.: Small sandy interbedding.
				12				
				14				Bottom at 14 ft. No ground water.

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 5

LOG OF TEST PIT 3

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2185'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
				2			SM	0–3 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low–plastic silt, 70% fine to coarse sand, roots to 3 ft.
				4			SM	3–10 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non–plastic silt, 75% fine to coarse sond.
				6				
				8				
				10	X			Bottom at 10 ft. No ground water.
				12				
				14				

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 6

LOG OF TEST PIT 4

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2181'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
	25.5			2			SM	0-3 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 25% low-plastic silt, 75% fine to coarse sand, roots to 3 ft.
				4			SM	3-9 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non-plastic silt, 75% fine to coarse sand.
				6				
				8				Bottom at 9 ft. No ground water.
				10				
				12				
				14				

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 7

LOG OF TEST PIT 5

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2175'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
NP	30.8	13.3					SM	0-3 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 31% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.
				2				
							SM	3-14 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non-plastic silt, 75% fine to coarse sand.
				4				
				6				
				8				
				10				
				12				
				14				Bottom at 14 ft. No ground water.

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN
DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH
ALPINE, CALIFORNIA

PLATE 8

LOG OF TEST PIT 6

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2175'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
				0	X		SM	0–2.5 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.
				2			SM	2.5–12 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 25% non-plastic silt, 75% fine to coarse sand, trace gravel.
				4				
				6				
				8				
				10				
				12	X			Bottom at 12 ft. No ground water.
				14				

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 9

LOG OF TEST PIT 7

EQUIPMENT: CAT 416 BH

DATE: 3-3-01 ELEV. 2174'

PLASTICITY INDEX	% PASSING #200	MOISTURE CONTENT % OF DRY WT.	DRY DENSITY (PCF)	DEPTH (FT.)	SAMPLE LOCATION	BLOWS / FOOT		
				2			SM	0-3 ft.: Dark brown, very fine to coarse, Silty Sand, very moist, loose, estimated 30% low-plastic silt, 70% fine to coarse sand, roots to 3 ft.
	29.8	7.9		4			SM	3-13 ft. Brown, very fine to coarse, Silty Sand, slightly moist, medium dense, estimated 30% non-plastic silt, 70% fine to coarse sand, with sandy interbeds.
				6				
				8				
				10				
				12				Bottom at 13 ft. No ground water.
				14				

SUMMIT ENGINEERING CORPORATION

FILE NO: 24803 DRAWN BY: MPN

DATE: 3-3-01 CHKD. BY: TL

ALPINE CLINIC SOUTH

ALPINE, CALIFORNIA

PLATE 10

	MAJOR DIVISIONS		GRAPHIC SYMBOL	GROUP SYMBOL	TYPICAL NAMES
COARSE GRAINED SOILS LESS THAN 50% PASSING No. 200 SIEVE	GRAVELS LESS THAN 50% COARSE FRACTION PASSES THE No.4 SIEVE	CLEAN GRAVELS WITH LITTLE OR NO FINES		GW	WELL GRADED GRAVELS, GRAVEL/SAND MIXTURE
				GP	POORLY GRADED GRAVELS, GRAVEL/SAND MIXTURE
		GRAVELS WITH OVER 12% FINES		GM	SILTY GRAVEL, POORLY GRADED GRAVEL/SAND/SILT MIXTURE
				GC	CLAYEY GRAVEL, POORLY GRADED GRAVEL/SAND/CLAY MIXTURE
	SANDS MORE THAN 50% COARSE FRACTION PASSES THE No.4 SIEVE	CLEAN SANDS WITH LITTLE OR NO FINES		SW	WELL GRADED SANDS, GRAVELLY SANDS
				SP	POORLY GRADED SANDS, GRAVELLY SANDS
		SANDS WITH OVER 12% FINES		SM	SILTY SANDS, POORLY GRADED SAND/CLAY MIXTURES
				SC	CLAYEY SAND, POORLY GRADED SAND/CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% PASSING No. 200 SIEVE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50			ML	INORGANIC SILTS & VERY FINE SANDS OF LOW PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS
				OL	ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
ORGANIC RICH SOILS				PT	TOPSOIL, PEAT, ORGANIC RICH SOILS
OTHER SOILS				F	FILL MATERIALS

UNIFIED SOIL CLASSIFICATION SYSTEM

UNDISTURBED SAMPLE

BULK SAMPLE

NO RECOVERY

MEASURED DEPTH TO GROUNDWATER

ALPINE
CLINIC SOUTH
ALPINE, CALIFORNIA

JOB NO.: 24803
APPR: TL BY: MPN
PLATE 11
11:48 AM • 7-MAR-2000

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JOB NO: 24803
DATE: 3-7-01
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CHKD. BY: TL

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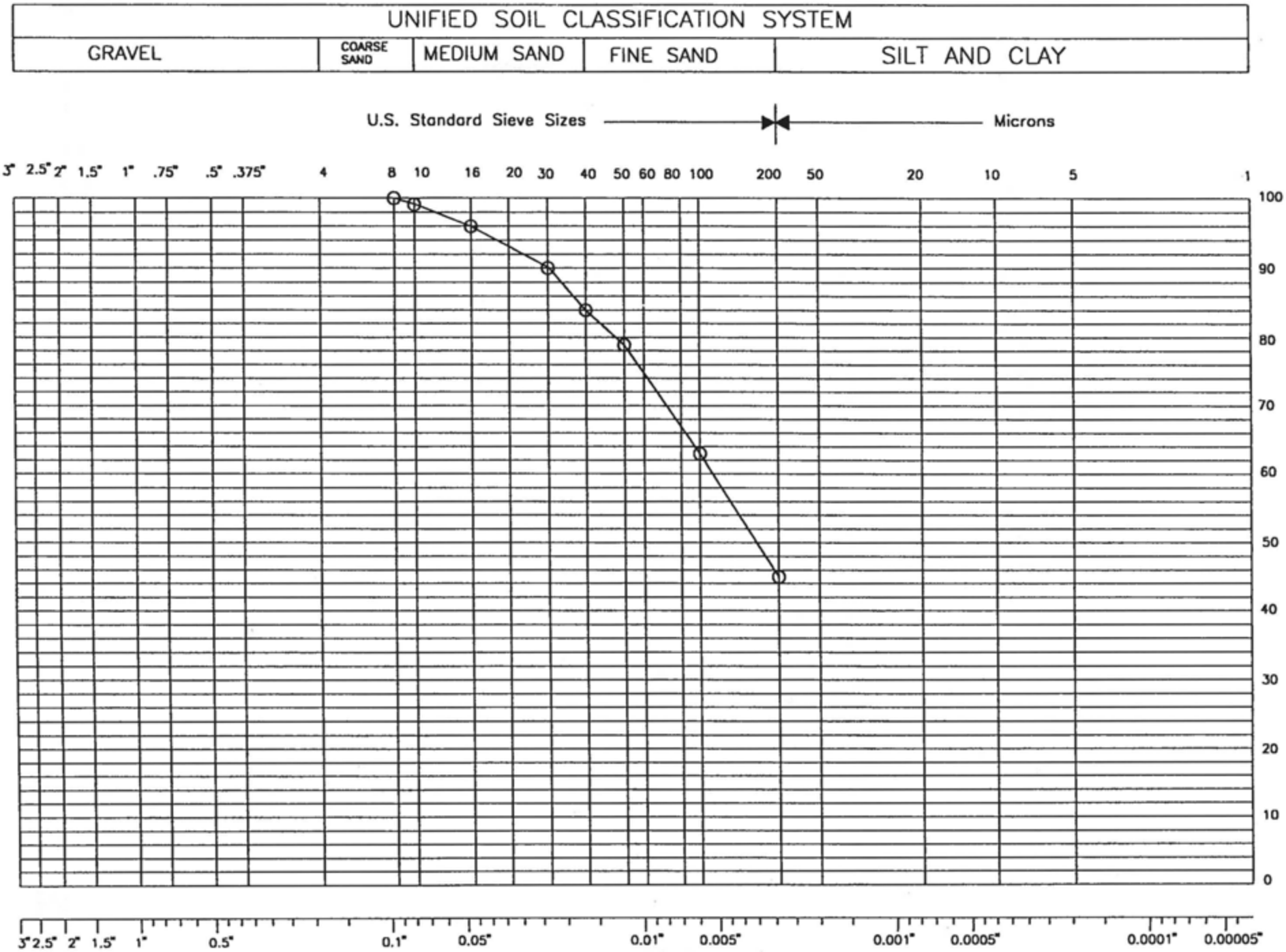
ALPINE CLINIC SOUTH

GRADING ANALYSIS

PLATE 12

8:40 AM • 6-MAR-2001



SAMPLE NO.: BH-1
LOCATION: 20-21.5 Feet

SYMBOL: O
D-60 = 0.00527

D-30 = N/A
D-10 = N/A

CU = N/A
CC = N/A

DESCRIPTION: CLAYEY SAND
CLASSIFICATION: SC

N:\DWGS\EWIIAAPAAYP\SOIL\Sieve1.DWG

JOB NO: 24803
DATE: 3-7-01
DRAWN BY: MPN
CHKD. BY: TL

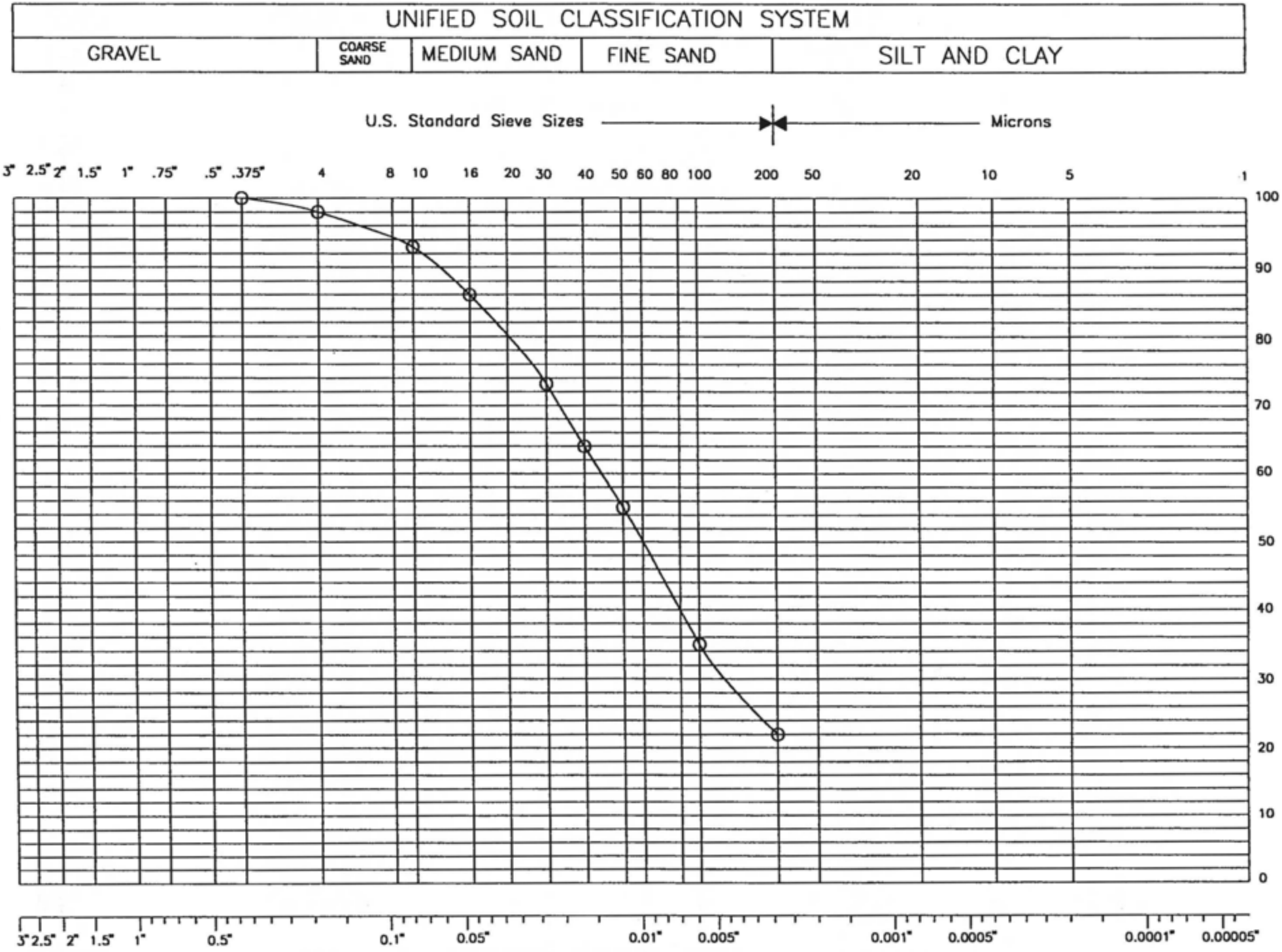
SUMMIT ENGINEERING CORPORATION

ALPINE CLINIC SOUTH

GRADING ANALYSIS

PLATE 13

8:40 AM • 6-MAR-2001



SAMPLE NO.: TP-1
LOCATION: 11-12 Feet

SYMBOL: O
D-60 = 0.0140

D-30 = 0.00465
D-10 = N/A

CU = N/A
CC = N/A

DESCRIPTION: SILTY SAND
CLASSIFICATION: SM

N:\DWGS\EWIIAAPAAYP\SOIL\Sieve2.DWG

JOB NO: 24803
DATE: 3-7-01
DRAWN BY: MPN
CHKD. BY: TL

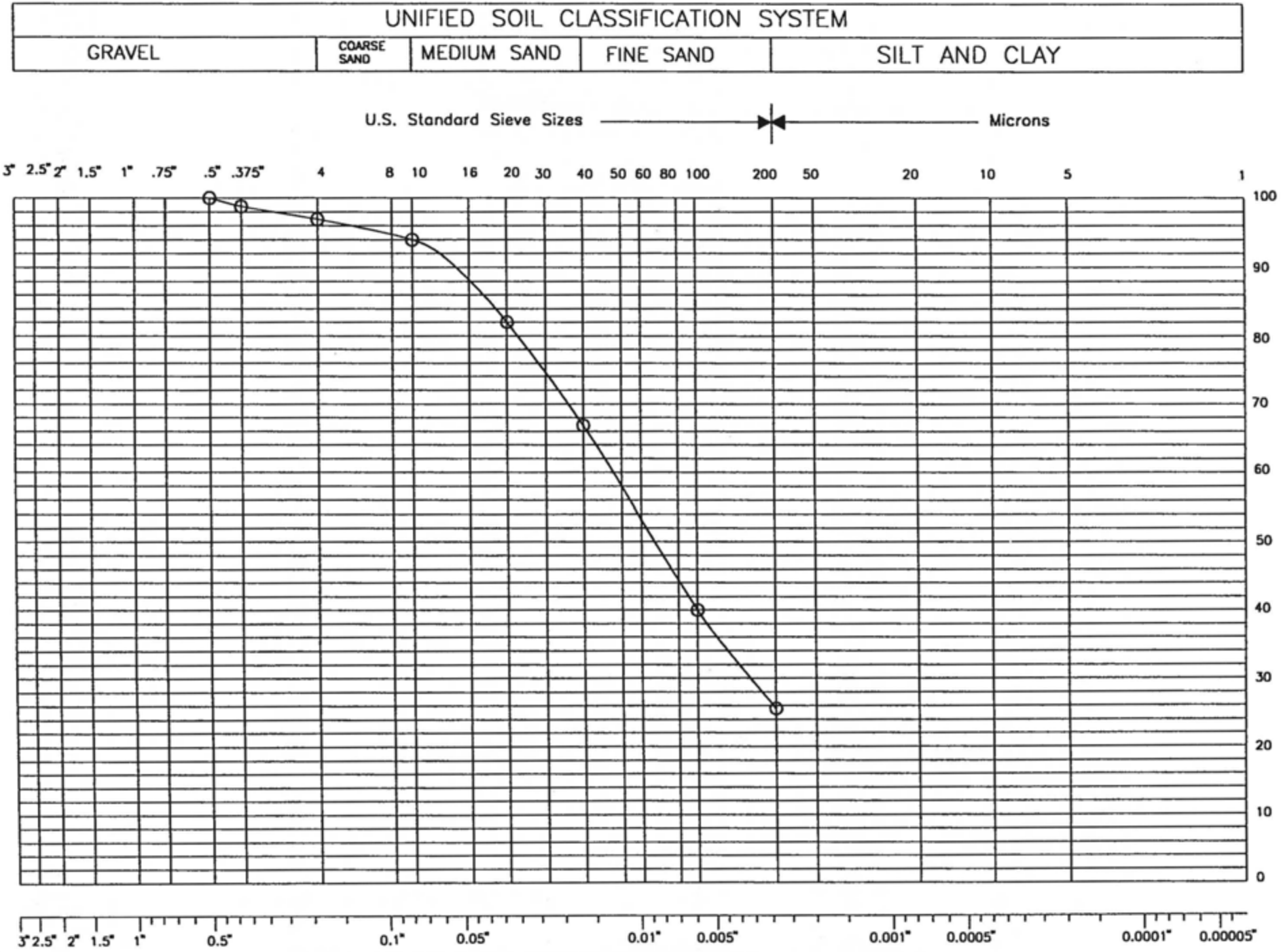
SUMMIT ENGINEERING CORPORATION

ALPINE CLINIC SOUTH

GRADING ANALYSIS

PLATE 14

8:40 AM • 6-MAR-2001



SAMPLE NO.: TP-4
LOCATION: 1-4 Feet

SYMBOL: O
D-60 = 0.324

D-30 = 0.093
D-10 = N/A

CU = N/A
CC = N/A

DESCRIPTION: SILTY SAND
CLASSIFICATION: SM

N:\DWGS\EWIIAAPAAYP\SOIL\Sieve3.DWG

JOB NO: 24803
DATE: 3-7-01
DRAWN BY: MPN
CHKD. BY: TL

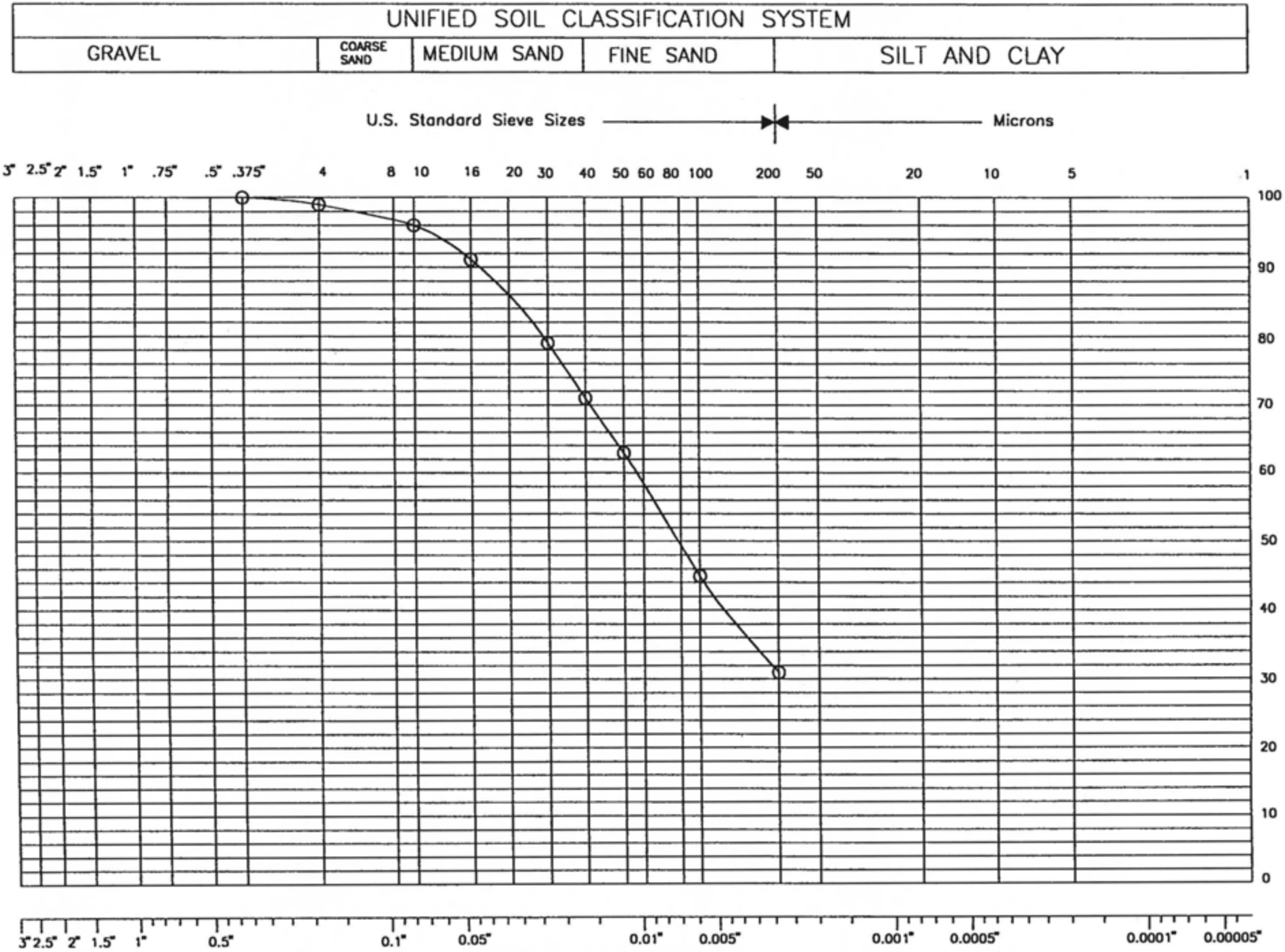
SUMMIT ENGINEERING CORPORATION

ALPINE CLINIC SOUTH

GRADING ANALYSIS

PLATE 15

8:40 AM • 6-MAR-2001



SAMPLE NO.: TP-5
LOCATION: 1-2 Feet

SYMBOL: O
D-60 = 0.0105

D-30 = N/A
D-10 = N/A

CU = N/A
CC = N/A

DESCRIPTION: SILTY SAND
CLASSIFICATION: SM

N:\DWGS\EWIIAAPAAYP\SOIL\Sieve4.DWG

JOB NO: 24803
DATE: 3-7-01
DRAWN BY: MPN
CHKD. BY: TL

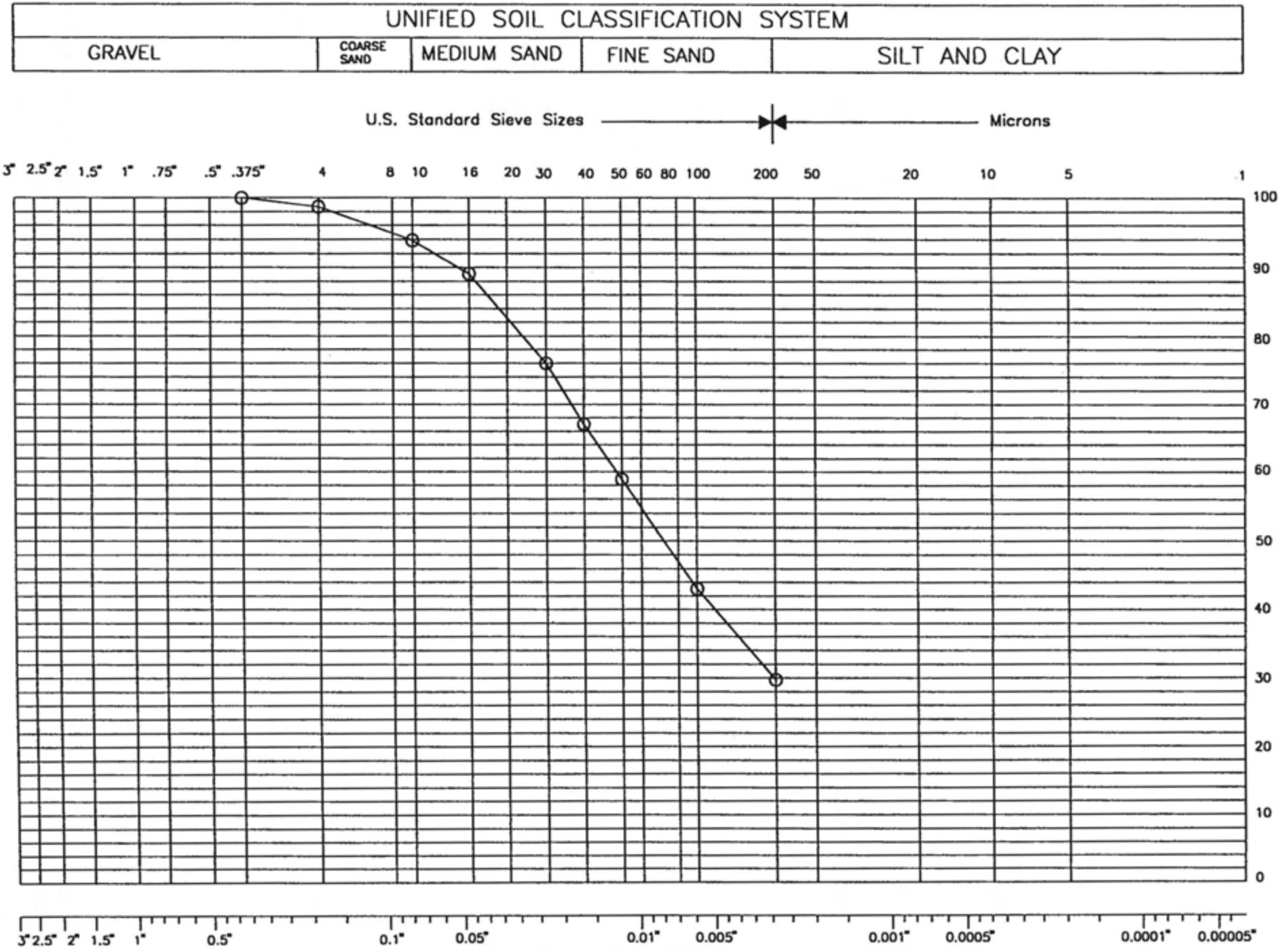
SUMMIT ENGINEERING CORPORATION

APLINE CLINIC SOUTH

GRADING ANALYSIS

PLATE 16

8:40 AM • 6-MAR-2001



SAMPLE NO.: TP-7
LOCATION: 3-4 Feet

SYMBOL: O
D-60 = 0.00259

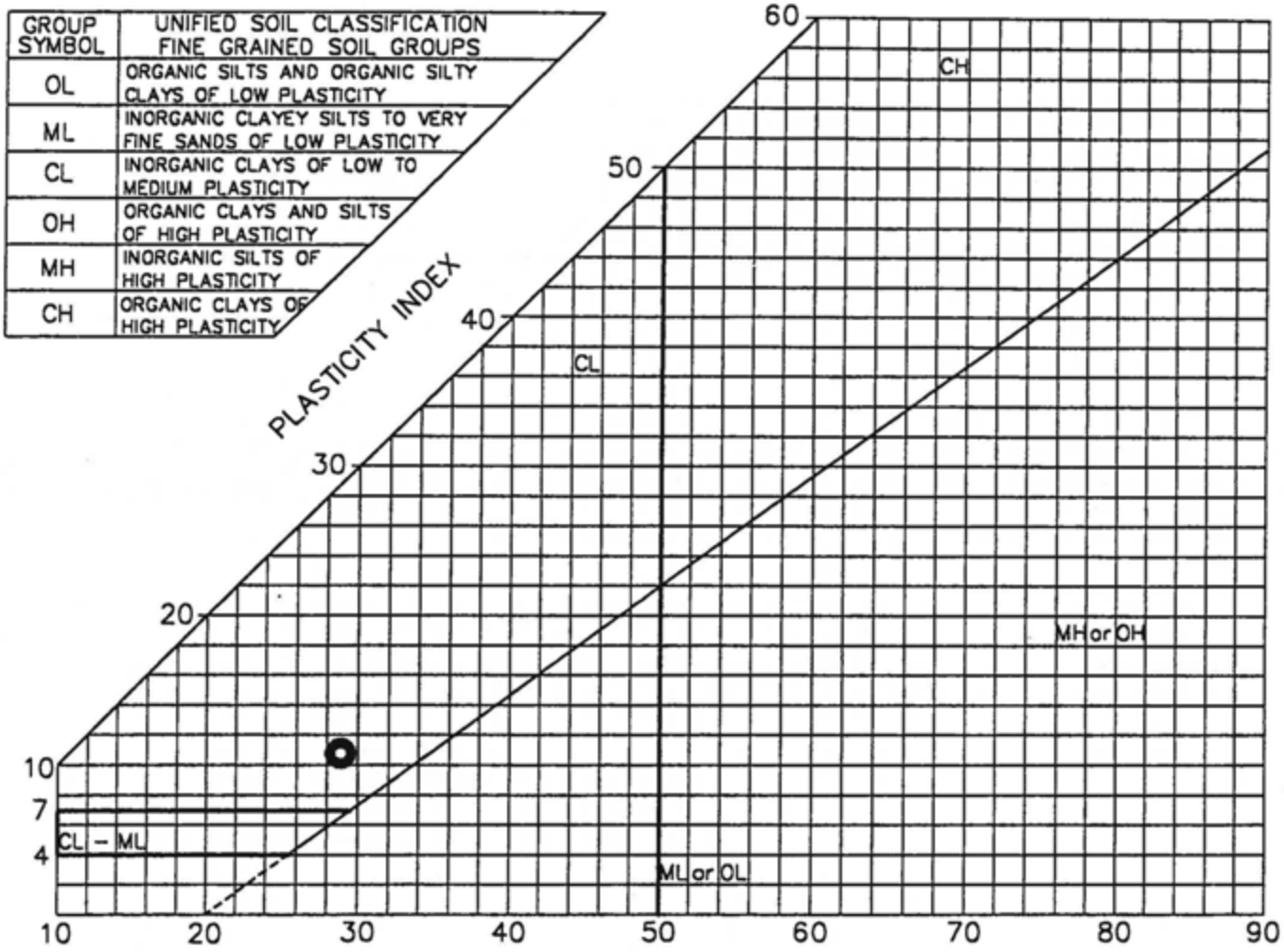
D-30 = 0.01250
D-10 = N/A

CU = N/A
CC = N/A

DESCRIPTION: SILTY SAND
CLASSIFICATION: SM

N:\DWGS\EWIIAAPAAYP\SOIL\Sieve5.DWG

GROUP SYMBOL	UNIFIED SOIL CLASSIFICATION FINE GRAINED SOIL GROUPS
OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
ML	INORGANIC CLAYEY SILTS TO VERY FINE SANDS OF LOW PLASTICITY
CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY
OH	ORGANIC CLAYS AND SILTS OF HIGH PLASTICITY
MH	INORGANIC SILTS OF HIGH PLASTICITY
CH	ORGANIC CLAYS OF HIGH PLASTICITY



TEST SYMBOL	BORING NUMBER	SAMPLE NUMBER	% PASSING #200 SIEVE	LIQUID LIMIT	PLASTICITY INDEX	CLASSIFICATION
●	BH–1	20–21.5'	45.3	29	11	SC

PLASTICITY INDEX
ALPINE
CLINIC SOUTH

JOB NO: 24803
APPR: TL BY: MPN
PLATE 17
9:02 AM • 8 MAR–2001

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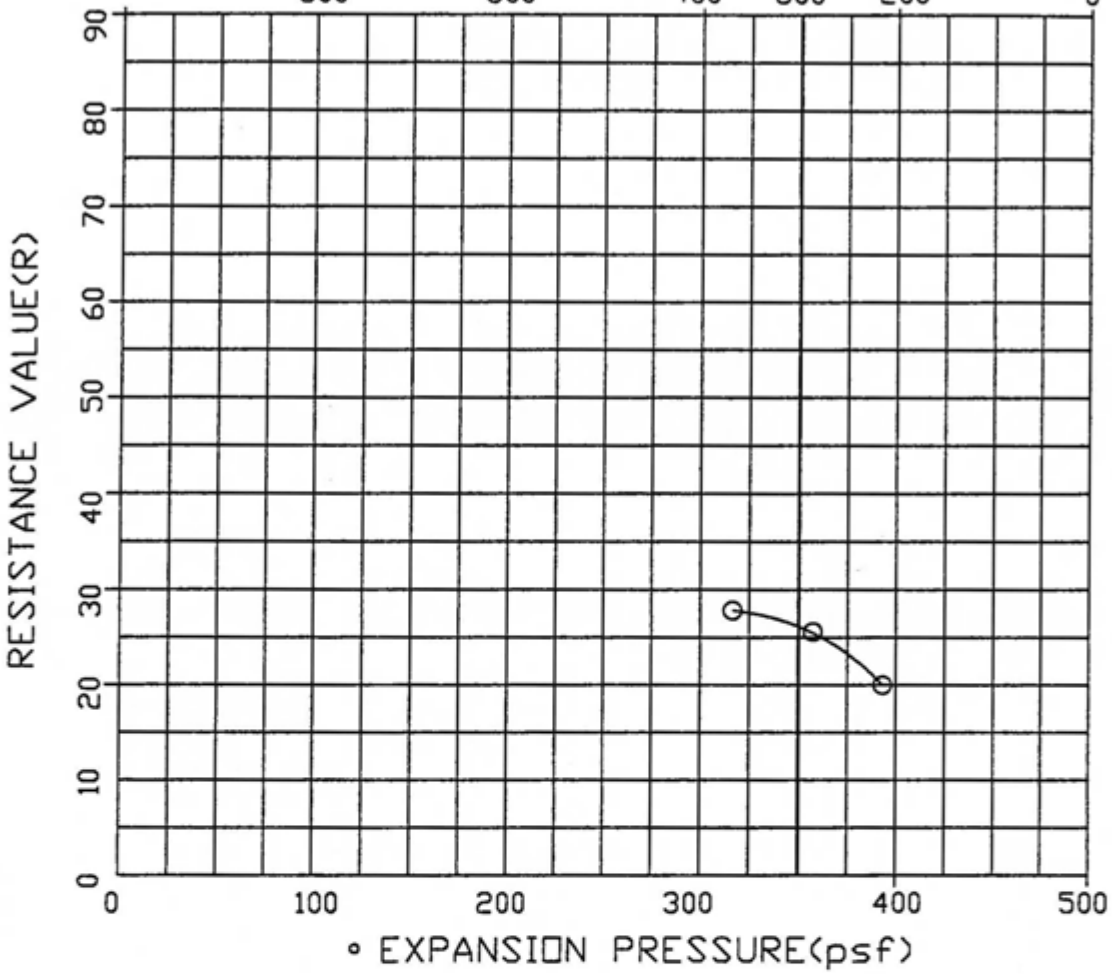
N: \DWGS\EWIIAAPAAYP\SOILS\PI.DWG

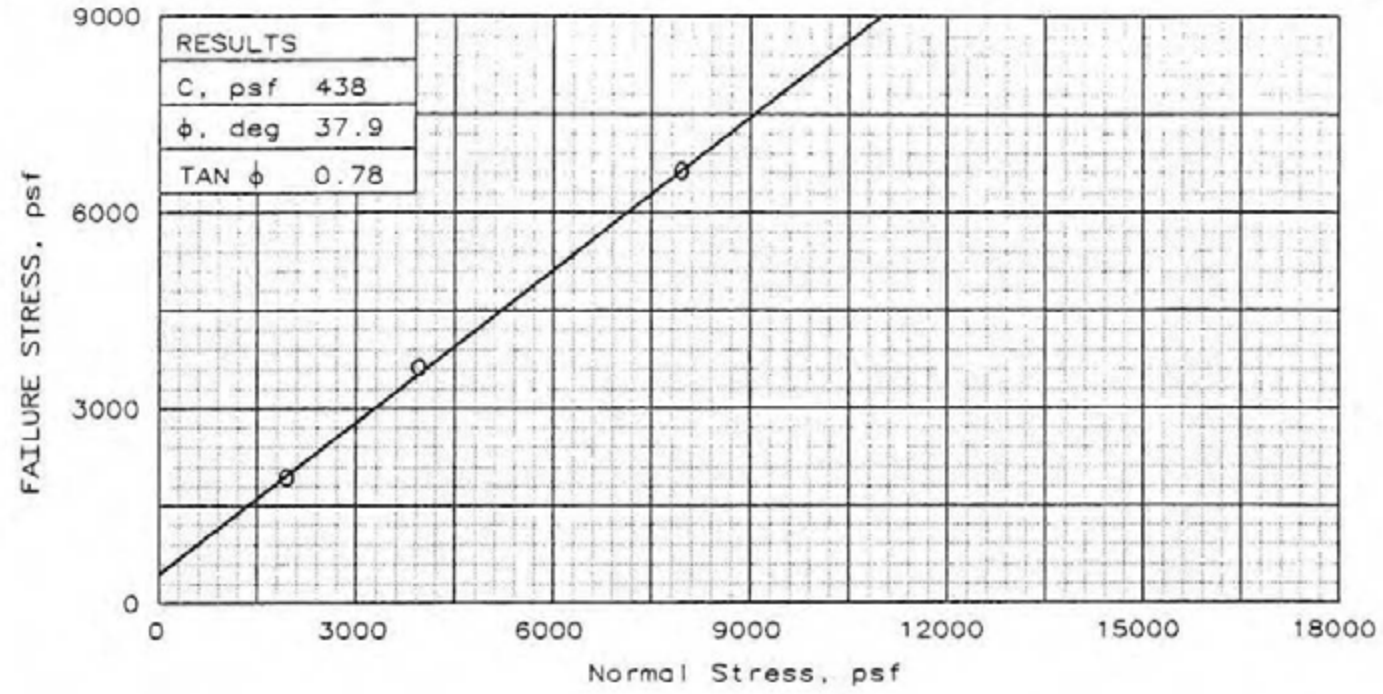


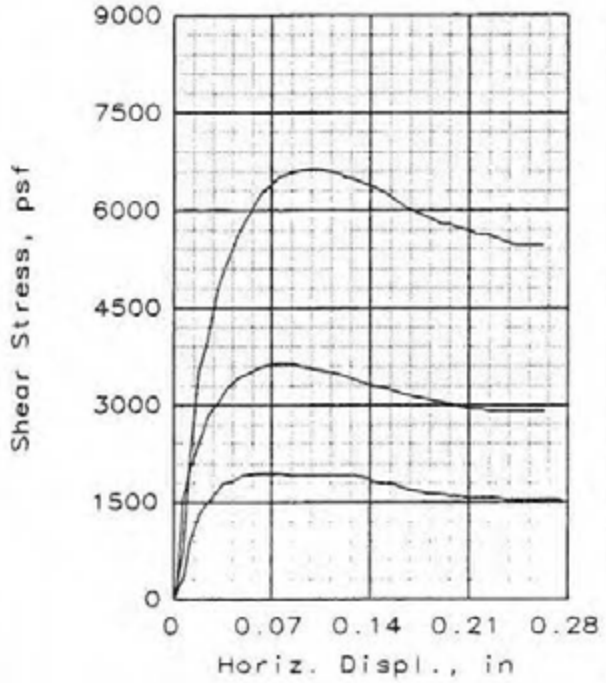
Specimen No.	A	B	C
Water Content(%)	11.9	14.4	12.7
Dry Density(pcf)	124.0	118.7	121.7
Exudation Pressure(psi)	366	207	294
Expansion Pressure(psf)	0	0	0
Resistance Value(R)	28	20	26

Sample Source	Classification	Sand Equivalent	Values Interpolated at 300 psi Exudation press.	
			Expansion Pressure	R-value
TP-4 0-4 Feet	Decomposed Gabbro Brown Silty Sand (SM)	----	0	26

SUMMIT ENGINEERING CORPORATION	R-VALUE ALPINE CLINIC SOUTH	PLATE
FILE NO: 24803 DRAWN BY: MPN DATE: 3-8-01 CHKD. BY: TL	ALPINE, CALIFORNIA	18

APPENDIX





SAMPLE NO.:		1	2	3
INITIAL	WATER CONTENT, %	10.8	10.8	10.8
	DRY DENSITY, pcf	117.0	117.0	117.0
	SATURATION, %	67.2	67.2	67.2
	VOID RATIO	0.430	0.430	0.430
	DIAMETER, in	2.42	2.42	2.42
	HEIGHT, in	1.00	1.00	1.00
AT TEST	WATER CONTENT, %	14.7	14.4	14.2
	DRY DENSITY, pcf	119.9	120.6	121.3
	SATURATION, %	99.9	99.9	100.0
	VOID RATIO	0.395	0.387	0.380
	DIAMETER, in	2.42	2.42	2.42
	HEIGHT, in	0.98	0.97	0.97
NORMAL STRESS, psf		2000	4000	8000
FAILURE STRESS, psf		1941	3632	6637
DISPLACEMENT, in		0.06	0.07	0.10
ULTIMATE STRESS, psf				
DISPLACEMENT, in				
Strain rate, in/min		0.0400	0.0400	0.0400

SAMPLE TYPE: Bulk
DESCRIPTION: Silty Sand (SM)

SPECIFIC GRAVITY= 2.68
REMARKS: Remolded

Fig. No. 1

CLIENT: Summit Engineering

PROJECT: Alpine Clinic, South Project

SAMPLE LOCATION: TP-3 @ 1.0'

PROJ. NO.: 0275-01-1 DATE: 3-8-2001

DIRECT SHEAR TEST REPORT

BLACK EAGLE CONSULTING, INC.

PERCOLATION TEST RESULTS

ALPINE CLINIC SOUTH

Project Number: 24803

Date of Test: 3-3-01

Test Location: Test Pit 5, Perc. Hole 1

Test Performed By: Tom Harding

Reviewed By: Trygve Loken

Test Data

Hole Diameter (in): 6

Test Depth (ft): Approx. 4 ft.
Water Depth (in): 6" during test

Soil Description: Silty Sand

Time of Reading	Time Difference (minutes)	Depth to Water (inches)	Depth to Water Difference (inches)	Percolation Rate (min/inch)
12:55 (fill cup)	--	2.10	--	--
13:10	15	3.40	1.30	11.5
13:32	22	4.70	1.30	16.9
13:59	27	6.00	1.30	20.8
14:22	23	7.50	1.50	15.3
14:40	18	8.50	1.00	18.0
14:42:00 (fill cup)	--	2.40	--	--
15:04	22	3.60	1.20	18.3
15:29	25	4.70	1.10	22.7
15:57	28	5.70	1.00	28.0

28.0

PERCOLATION TEST RESULTS

ALPINE CLINIC SOUTH

Project Number: 24803

Date of Test: 3-3-01

Test Location: Test Pit 5, Perc. Hole 2

Test Performed By: Tom Harding

Reviewed By: Trygve Loken

Test Data

Hole Diameter (in): 6

Test Depth (ft): Approx. 6 ft.
Water Depth (in): 6" during test

Soil Description: Silty Sand

Time of Reading	Time Difference (minutes)	Depth to Water (inches)	Depth to Water Difference (inches)	Percolation Rate (min/inch)
12:56 (fill cup)	--	3.00	--	--
13:10	14	3.90	0.90	15.6
13:33	23	4.50	0.60	38.3
13:59	26	5.30	0.80	32.5
14:23	24	6.10	0.80	30.0
14:40	17	6.70	0.60	28.3
15:04	24	7.50	0.80	30.0

30.0

PERCOLATION TEST RESULTS

ALPINE CLINIC SOUTH

Project Number: 24803

Date of Test: 3-3-01

Test Location: Test Pit 6, Perc. Hole 1

Test Performed By: Tom Harding

Reviewed By: Trygve Loken

Test Data

Hole Diameter (in): 6

Test Depth (ft): Approx. 10 ft.
Water Depth (in): 6" during test

Soil Description: Silty Sand

Time of Reading	Time Difference (minutes)	Depth to Water (inches)	Depth to Water Difference (inches)	Percolation Rate (min/inch)
12:53 (fill cup)	--	1.70	--	--
13:04	11	4.70	3.00	3.7
13:16	12	6.40	1.70	7.1
13:31	15	8.10	1.70	8.8
13:39	8	9.10	1.00	8.0
13:40 (fill cup)	--	2.00	--	--
14:01	21	4.70	2.70	7.8
14:24	23	6.70	2.00	11.5
14:43	19	8.80	2.10	9.0
14:44	--	1.60	--	--
15:07:00 (fill cup)	21	4.10	2.50	8.4
15:31:00 PM	24	6.00	1.90	12.6
16:00:00 PM	29	8.30	2.30	12.6

12.6

Appendix D

Expanded Regulatory Setting

Expanded Regulatory Setting

INTRODUCTION

This Appendix summarizes the framework of laws, regulations, and agreements pertaining to the property and actions outlined throughout the Environmental Assessment (EA). The relevant legislation is organized by resource category, and while most regulations discussed within the document are described herein, this list is not comprehensive and is limited to the primary regulations relevant to the analysis within the EA. Once taken into trust, it is noted that state and local laws and regulations are generally not applicable.

LAND RESOURCES – SECTION 3.2 OF THE EA

Federal

Clean Water Act

The Clean Water Act (CWA) prohibits sediment and erosion discharge into navigable waters of the United States and establishes water quality goals. For land held in trust, the U.S. Environmental Protection Agency requires a National Pollution Discharge Elimination System (NPDES) General Construction Permit if a project will disturb one or more acres of soil. A site-specific Stormwater Pollution Prevention Plan (SWPPP) is required under this permit. For more information on the CWA, see **Water Resources** below.

State and Local

Alquist-Priolo Earthquake Fault Zoning Act

The Alquist-Priolo Earthquake Fault Zoning Act (Alquist-Priolo Act; formerly the Alquist-Priolo Special Studies Zone Act), signed into law December 1972 after the 1971 San Fernando earthquake, requires the delineation of zones along active and potentially active faults in California. The California Geological Survey defines an “active” fault as one that exhibits evidence of activity during the last 11,000 years. Faults that exhibit evidence of Quaternary activity (within the last 1.6 million years) are considered “potentially active.” The purpose of the Alquist-Priolo Act is to regulate development on or near fault traces to reduce the hazard of fault rupture and to prohibit the location of most off-Reservation structures for human occupancy across these traces.

Seismic Hazards Mapping Act

The Seismic Hazards Mapping Act was enacted in 1990 to protect the public from the effects of strong ground shaking, liquefaction, landslides, ground failure, or other hazards caused by earthquakes. This act requires a state geologist to delineate various seismic hazard zones and requires cities, counties, and other local permitting agencies to regulate certain development projects within the portions of those zones where they have jurisdiction. Before a development permit is granted by a city, county, or other local permitting agency for a site within a seismic hazard zone, a geotechnical investigation must be conducted, and appropriate mitigation measures must be incorporated into the project’s design.

Surface Mining and Reclamation Act

The Surface Mining and Reclamation Act of 1975 requires all jurisdictions to incorporate mapped mineral resources designations approved by the California Mining and Geology Board within their general plans. The Surface Mining and Reclamation Act was enacted to limit new development in areas with significant mineral deposits. The California Department of Conservation's Office of Mine Reclamation and the California Mining and Geology Board are jointly charged with ensuring proper administration of the act's requirements. The California Mining and Geology Board circulates regulations to clarify and interpret the act's provisions and also serves as a policy and appeals board.

San Diego County General Plan

The San Diego County General Plan Conservation and Open Space Element outlines the County's goals and policies related to land resources, including mineral resources and unique geological formations. The County maintains a policy of preserving unique geological resources and minimizing impacts of development on these resources. Additionally, the general plan has a balanced policy of preserving natural mineral resources while responsibly extracting resources and preserving ongoing mineral extraction operations. The safety element of the general plan provides goals and policies related to public safety, including emergencies related to seismic events. The San Diego County Multi-Jurisdictional Hazard Mitigation Plan in incorporated into the general plan by reference. Per the general plan policies, the land use designations within the County and citing of public facilities were designed to consider exposure of peoples to natural disaster.

WATER RESOURCES – SECTION 3.3 OF THE EA

Federal

Executive Order 11988

Executive Order (EO) 11988 requires federal agencies to avoid to the extent possible the long and short-term adverse impacts associated with the occupancy and modification of floodplains and to avoid direct and indirect support of floodplain development wherever there is a practicable alternative. Specifically, EO 11988 states that agencies shall first determine whether the proposed action will occur in a floodplain. EO 11988 defines a floodplain as an area that has a one percent or greater chance of flooding in any given year. Second, if an agency proposes to allow an action to be located in a floodplain, the agency shall consider alternatives to avoid adverse effects and incompatible development in the floodplains. If the only practicable alternative action requires siting in a floodplain, the agency shall minimize potential harm to or within the floodplain.

Clean Water Act

CWA (33 U.S. Code [USC] § 1251-1376), as amended by the Water Quality Act of 1987, is the major federal legislation governing water quality. The objective of the CWA is "to restore and maintain the chemical, physical, and biological integrity of the Nation's waters." The U.S. Environmental Protection Agency (USEPA) is delegated as the administrative agency under the CWA. Relevant sections of the CWA are as follows.

- Sections 303 and 304 provide for water quality standards, criteria, and guidelines. Section 303(d) requires states to identify impaired off-Reservation water bodies, rank these impaired bodies based on severity of contamination and uses for the waters, and develop water quality management strategies, usually in the form of total maximum daily loads for the contaminant(s) of concern.

- Section 401 (Water Quality Certification) requires an applicant for any federal permit that proposes an activity that may result in a discharge to Waters of the U.S., to obtain certification from the USEPA for on-trust land activities, or the state for off-Reservation activities, that the discharge will comply with other provisions of the CWA.
- Section 402 establishes the National Pollutant Discharge Elimination System (NPDES), a permitting system for the discharge of any pollutant (except for dredged or fill material) into Waters of the U.S. Each NPDES permit contains limits on concentrations of pollutants discharged to surface waters to prevent degradation of water quality and protect beneficial uses.

The Federal Antidegradation Policy was adopted as part of the 1972 amendments to the CWA. Federal policy (Code of Federal Regulations [CFR], Title 40, Part 131.12) specifies that each state must develop, adopt, and retain an anti-degradation policy to protect the minimum level of off-Reservation surface water quality necessary to support existing uses. Each state must also develop procedures to implement the anti-degradation policy through water quality management processes. Each state anti-degradation policy must include implementation methods consistent with the provisions outlined in 40 CFR § 131.12. On trust land, these issues are addressed by the USEPA.

General NPDES Permit for Construction

In 1990, an amendment to the CWA directed the NPDES permitting program to address non-point source pollution from construction activities. Construction activities include clearing, grading, excavation, stockpiling, and reconstructing existing facilities involving removal and replacement of existing foundations or other hardscapes. Construction projects disturbing one or more acres of soil must be covered under the NPDES Construction General Permit process. For tribal projects on land held in trust by the federal government, the Tribe proposing the project must apply for coverage under the USEPA's NPDES Construction General Permit. Project proponents are required to submit to the USEPA a complete Notice of Intent (NOI) to comply with the permit. A complete NOI package consists of an NOI form, site map, and fee. The USEPA's NPDES Construction General Permit also requires the development and implementation of a SWPPP. The SWPPP contains a site map showing the construction site perimeter, existing and proposed buildings, lots and roadways, stormwater collection and discharge points, general topography both before and after construction, and drainage patterns across the site. The SWPPP must list Best Management Practices (BMP) that will be implemented during construction and operation to address stormwater runoff rates and quality. SWPPP BMPs include the following categories:

- Site planning considerations, such as preservation of existing vegetation;
- Vegetation stabilization through methods such as seeding and planting;
- Physical stabilization through use of dust control and stabilization measures;
- Diversion of runoff by utilizing earth dikes and temporary drains and swales;
- Velocity reduction through measures such as slope roughening/terracing; and
- Sediment trapping/filtering through use of silt fences, straw bales and sand bag filters, and sediment traps and basins.

Safe Drinking Water Act

Under the mandate of the Safe Drinking Water Act, the USEPA sets legally enforceable National Primary Drinking Water Regulations (primary standards) that apply to public water systems. These standards are established to protect human health by limiting the levels of contaminants in drinking water. The USEPA also defines National Secondary Drinking Water Regulations (secondary standards) for contaminants that cause cosmetic and aesthetic effects, but not for health effects. The USEPA recommends that these secondary standards be met but does not require systems to comply with them.

The USEPA does not oversee the construction and permitting of groundwater wells, but requires that public health standards, such as an effectively installed sanitary seal, are in place, and recommends that water systems be installed to meet California Department of Public Health Standards. The USEPA will also primarily establish monitoring and operational requirements, which will typically be specific to the project area. Both primary and secondary drinking water standards are expressed as either Maximum Contaminant Levels, which define the highest level of a contaminant allowed in drinking water, or Maximum Contaminant Level Goals, which define the level of a contaminant below which there is no known or expected risk to health. Monitoring requirements typically include total coliform, nitrate, inorganic chemicals, volatile organic chemicals, non-volatile synthetic organic chemicals, secondary drinking water standard constituents, and general chemistry (including alkalinity, hardness, and minerals). The frequency of sampling varies and may be reduced over time.

Federal Emergency Management Agency (FEMA)

The Disaster Relief Act of 1974 as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988 created FEMA, which is responsible for determining flood elevations and floodplain boundaries based on U.S. Army Corps of Engineers (USACE) studies. FEMA is also responsible for distributing Flood Insurance Rate Maps, which are used in the National Flood Insurance Program. These maps identify the locations of special flood hazard areas, including 100-year floodplains.

State and Local

Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act provides the basis for surface water and groundwater quality regulation within California. The act established the authority of the SWRCB and the nine Regional Water Quality Control Boards (RWQCB). The act requires the State, through the SWRCB and the RWQCBs, to designate beneficial uses of surface waters and groundwater and specify water quality objectives designed to protect those uses. These water quality objectives are presented in the Regional Water Quality Control Plans. The surface water quality standards for State of California include both narrative and numerical water quality objectives to keep California's waters swimmable, fishable, drinkable, and suitable for use by industry, agriculture, and the citizens of the state.

Sustainable Groundwater Management Act

The intent of the California Sustainable Groundwater Management Act (SGMA; Water Code § 10720 et seq.) is to "enhance local management of groundwater consistent with rights to use or store groundwater… [and] to preserve the security of water rights in the state to the greatest extent possible consistent with the sustainable management of groundwater." The SGMA states that "any local agency or combination of local agencies overlying a groundwater basin may elect to be a groundwater sustainability agency for that basin" (Water Code § 10723). A groundwater sustainability agency will be formed within each groundwater basin to prepare and implement a plan for long-term groundwater sustainability. The Project Site is not within a groundwater basin that requires a groundwater sustainability plan.

San Diego County General Plan

The Conservation and Open Space element of the County's General Plan identifies goals and policies of the County as it relates to water resources. According to the general plan, the purpose of the general plan as it relates to water resources is to "conserve and efficiently use water and protect the groundwater aquifer, water bodies, and water courses, which include reservoirs, rivers, streams, and the watersheds located throughout the region."

This includes all facets of water resource management, from flooding, stormwater, drinking water, surface waters, and groundwater. Goals include balanced and integrated water management with protection and maintenance of water resources.

AIR QUALITY – SECTION 3.4 OF THE EA

Federal

Clean Air Act (CAA) of 1970

The Clean Air Act (CAA; 42 USC Chapter 85) is the federal legislation for the protection of air quality. The CAA gives the USEPA authority to regulate air quality by promulgating standards and levels for air quality and enforcing those standards and levels on federal, state, and tribal land. The CAA requires the USEPA to regulate hazardous air pollutants, which are those pollutants that are known or suspected to cause cancer or other serious health effects, such as reproductive effects or birth defects, or adverse environmental effects.

The Federal CAA of 1970, as amended, establishes air quality standards for several critical air pollutants (CAPs): ozone (O_3), carbon monoxide (CO), particulate matter (PM), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead (Pb). These pollutants are termed "criteria" pollutants because the USEPA has established specific concentration threshold criteria based upon specific medical evidence of health effects or visibility reduction, soiling, nuisance, and other forms of damage. These National Ambient Air Quality Standards (NAAQS) are divided into primary standards and secondary standards. Primary standards are designed to protect the public health and secondary standards are intended to protect the public welfare from effects such as visibility reduction, soiling, nuisance, and other forms of damage. NAAQS and California Ambient air quality standards (CAAQS) are shown in **Table 1.** Areas are designated attainment, nonattainment, or maintenance by the USEPA depending on whether the area is below or exceed the established NAAQS. Nonattainment areas must take steps towards attainment within a specific period of time. Once an area reaches attainment for particular criteria pollutant, then the area is re-designated attainment or maintenance. The CAA places most of the responsibility on states to achieve compliance with the NAAQS. States, municipal statistical areas, and counties that contain areas of nonattainment are required to develop a State Implementation Plan (SIP), which outlines policies and procedures designed to bring the state into compliance with the NAAQS.

Ozone

Photochemical reactions involving reactive organic gases (ROG)/volatile organic compounds (VOC) and nitrogen oxides (NO_X) resulting from the incomplete combustion of fossil fuels are the largest source of ground-level O_3. Because photochemical reaction rates depend on the intensity of ultraviolet light and air temperature, O_3 is primarily a summer air pollution problem. As a photochemical pollutant, O_3 is formed only during daylight hours under appropriate conditions. However, it is destroyed throughout the day and night. O_3 is considered a regional pollutant as the reactions forming it take place over time and are often most noticeable downwind from the sources of the emissions. The San Diego Air Basin is designated as nonattainment for O_3 by the USEPA.

Particulate Matter 2.5

Particle pollution is a mixture of microscopic solids and liquid droplets suspended in air. This pollution, also known as $PM_{2.5}$, is made up of several components, including acids (nitrates and sulfates), organic chemicals, metals, soil or dust particles, and allergens (fragments of pollen or mold spores). The size of particles is directly linked to their potential for causing health problems. Particles smaller than 2.5 µm pose the greatest problems because they can be inhaled deep into the lungs. Exposure to such particles can affect respiratory system function.

Table 1: Ambient Air Quality Standards

Pollutant	Averaging Time	Standard (parts per million)		Standard (microgram per cubic meter)		Violation Criteria	
		CAAQS	NAAQS	CAAQS	NAAQS	CAAQS	NAAQS
O_3	1 hour	0.09	N/A	180	N/A	If exceeded	N/A
	8 hours	0.070	0.070	137	137	N/A	If exceeded on more than 3 days in 3 years
CO	8 hours	9.0	9	10,000	10,000	If exceeded	If exceeded on more than 1 day per year
	1 hour	20	35	23,000	40,000	If exceeded	If exceeded on more than 1 day per year
NO_2	Annual arithmetic mean	0.030	0.053	57	100	N/A	If exceeded
	1 hour	0.18	0.100	470	188	If exceeded	N/A
SO_2	Annual arithmetic mean	N/A	0.030	N/A	N/A	N/A	If exceeded
	24 hours	0.04	0.14	105	N/A	If exceeded	If exceeded on more than 1 day per year
	1 hour (primary)	0.25	0.075	655	196	N/A	N/A
	3 hours (secondary)	N/A	0.5	N/A	N/A		If exceeded on more than 1 day per year
PM_{10}	Annual arithmetic mean	N/A	N/A	20	N/A	If exceeded	If exceeded
	24 hours	N/A	N/A	50	150	If exceeded	If exceeded on more than 1 day per year
$PM_{2.5}$	Annual arithmetic mean (primary)	N/A	N/A	12	12	If exceeded	If exceeded
	Annual arithmetic mean (secondary)	N/A	N/A	N/A	15	If exceeded	If exceeded
	24 hours	N/A	N/A	N/A	35	If exceeded	If exceeded on more than 1 day per year
Lead	30-day Avg.	N/A	N/A	1.5	N/A	If equaled or exceeded	N/A
	Rolling 3-month Avg.	N/A	N/A	N/A	0.15	N/A	If exceeded
Visibility Reducing Particles	8 hours	Extinction coefficient of 0.23 per kilometer – visibility of ten miles or more.	No Federal Standard	N/A	No Federal Standard	N/A	N/A
Sulfates	24 hours		No Federal Standard	25	No Federal Standard	If equaled or exceeded	N/A
H_2S	1 hour	0.03	No Federal Standard	42	No Federal Standard	If equaled or exceeded	N/A
Vinyl Chloride	24 hours	0.01	No Federal Standard	26	No Federal Standard	If equaled or exceeded	N/A

Source: California Air Resources Board, 2023

Carbon Monoxide

CO is not readily dispersed throughout the atmosphere; therefore, it is considered a localized air quality issue as it is close to the emission source. CO emissions generally cause an acute (short-term) health threat. CO is a pollutant of concern at major signalized intersections (greater than 100,000 vehicles per day) that exhibit prolonged vehicle idling times. The San Diego Air Basin is designated as maintenance for CO by the USEPA (USEPA, 2023).

Hazardous Air Pollutants

In addition to the above-listed CAPs, Hazardous Air Pollutants (HAP) are a group of chemical pollutants which can cause adverse effects to human health and/or the environment. HAPs are a list of over 188 airborne chemicals developed by the USEPA. Sources of HAPs include industrial processes, such as petroleum refining and chrome plating operations; commercial operations, such as gasoline stations and dry cleaners; cigarette smoke; and motor vehicle exhaust. Cars and trucks release at least 40 different HAPs. The most important, in terms of health risk, are diesel particulate matter (DPM), benzene, formaldehyde, 1,3-butadiene, and acetaldehyde. Health effects of HAPs can include cancer, birth defects, and neurological damage.

HAPs are less pervasive in the urban atmosphere than CAPs but are linked to short-term (acute) or long-term (chronic or carcinogenic) adverse human health effects. The majority of the estimated health risk from HAPs can be attributed to relatively few compounds. The most important HAPs are found in DPM. Diesel engines emit a complex mixture of air pollutants, composed of gaseous and solid material. Diesel exhaust contains a variety of harmful gases and over 40 other cancer-causing substances, and the visible emissions in diesel exhaust are PM that includes carbon particles or “soot.” Exposure to DPM is a health hazard, particularly to children whose lungs are still developing and the elderly who may have other serious health problems. Due to the controversy surrounding DPM, an assessment of the potential impacts of DPM releases associated with the Proposed Project has been included in the EA Section 3.4.

Federal General Conformity Rule

Under the General Conformity Rule, updated in 2010, the lead agency with respect to a federal action is required to demonstrate that the proposed federal action conforms to the applicable SIP before the action is taken. There are two phases to a demonstration of general conformity.

- The Conformity Review process, which entails an initial review of the federal action to assess whether a full conformity determination is necessary
- The Conformity Determination process, which requires that a proposed federal action be demonstrated to conform to the applicable SIP

The Conformity Review requires the lead agency to compare estimated emissions to the applicable general conformity levels (40 CFR 93.153 [b][1] and [2]), which these can be seen in **Table 2** and **Table 3**. If the emission estimates from step one is below the applicable threshold(s), then a general conformity determination is not necessary and the full Conformity Determination is not required. If emission estimates are greater than the applicable threshold(s), the lead agency must conduct a Conformity Determination.

Federal Class I Areas

Title 1, Part C of the CAA was established in part to preserve, protect, and enhance the air quality in national parks, national wilderness areas, national monuments, national seashores, and other areas of special national or regional natural, recreational, scenic, or historic value. The CAA designates all international parks, national wilderness areas, and memorial parks larger than 5,000 acres and national parks larger than 6,000 acres as “Class I areas.”

Table 2: 40 CFR 93.153 [b][1] Emission Rates for Nonattainment Areas (NAAs)

Pollutant	Tons per Year
Ozone (VOC's or NOX)	
Serious NAA's	50
Severe NAA's	25
Extreme NAA's	10
Other ozone NAA's outside ozone transport region	100
Other Ozone NAA's Inside an Ozone Transport Region	
VOC	50
NOx	100
Carbon Monoxide: all maintenance areas	100
SO_2 or NO_2: All NAAs	100
PM_{10}	
Moderate NAA's	100
Serious NAAs	70
PM2.5 (direct emissions, SO2, NOX, VOC, and Ammonia):	
Moderate NAA's	100
Serious NAAs	70
PD	
All NAA's	25

Table 3: 40 CFR 93.153 [b][2] Emission Rates for Maintenance Areas

Pollutant	Tons per Year
Ozone (NOX), SO_2 or NO_2	
All maintenance areas	100
Ozone (VOC's)	
Maintenance areas inside an ozone transport region	50
Maintenance areas outside an ozone transport region	100
Carbon monoxide	
All maintenance areas	100
PM_{10}	
All maintenance areas	100
PM2.5 (direct emissions, SO2, NOx, VOC, and Ammonia)	
All maintenance areas	100
Pb	
All maintenance areas	25

The CAA prevents significant deterioration of air quality in Class I areas under the Prevention of Significant Deterioration (PSD) Program. The PSD Program protects Class I areas by allowing only a small increment of air quality deterioration in these areas by requiring assessment of potential impacts on air quality related values of Class I areas. Any major source of emissions within 100 kilometers (62.1 miles) from a federal Class I area is required to conduct a pre-construction review of air quality impacts on the area(s). A "major source" for the PSD Program is defined as a facility that will emit (from direct stationary sources) 250 tons per year (tpy) of regulated pollutant. For certain industries, these requirements apply to facilities that emit (through direct stationary sources) 100 tpy or more of a regulated pollutant. Mobile sources (e.g., vehicle emissions) are by definition not stationary sources and are therefore not subject to the PSD program.

Tribal New Source Review

The Tribal Minor New Source Review (NSR) permitting program was established by the USEPA under the CAA. The minor NSR program applies to both new minor sources and minor modifications to both major and minor projects in attainment and nonattainment areas. NSR programs must comply with the standards and control strategies of the Tribal Implementation Plan (TIP) or SIP. If there is not an applicable SIP or TIP, the USEPA issues permits and implements the program. A General Permit under the minor NSR program would be required on tribal trust land if stationary source allowable emissions of regulated pollutants would exceed the thresholds presented in 40 CFR 49.153, Table 1 (presented in **Table 4**). This General Permit serves as a preconstruction permit containing limitations and other restrictions specifying the construction, modification, and operation of a minor source. The applicability of Tribal NSR is made on a source's potential to emit (PTE). For emergency generators, the USEPA has determined that 500 hours per year should be assumed as a reasonable and realistic "worst-case" estimate on a PTE basis (USEPA, 1995).

Table 4: Tribal Minor New Source Review Thresholds

Pollutant	Emissions Thresholds for Nonattainment Areas (tpy)	Emissions Thresholds for Attainment Areas (tpy)
NOx	5	10
ROG	2	5
PM	5	10
PM_{10}	1	5
$PM_{2.5}$	0.6	3
CO	5	10
SO_2	5	10
Pb	0.1	0.1

Source: 40 CFR 49.153.

State and Local

Global Warming Solutions Act of 2006 (AB 32)

Assembly Bill (AB) 32 codifies a key requirement of EO S-3-05: the requirement to reduce State-wide GHG emissions to 1990 levels by 2020. AB 32 tasks CARB with monitoring State sources of GHGs and designing emission reduction measures to comply with the law's emission reduction requirements. However, AB 32 also continues the CAT's efforts to meet the requirements of EO S-3-05 and states that the CAT should coordinate overall state climate policy. In order to accelerate the implementation of emission reduction strategies, AB 32 requires that CARB identify a list of discrete early action measures that can be implemented relatively quickly.

In October 2007, CARB published a list of early action measures that could be implemented and would serve to meet about a quarter of the required 2020 emissions reductions. In order to assist CARB in identifying early action measures, the CAT published a report in April 2007 that updated their 2006 report and identified strategies for reducing GHG emissions. In the October 2007 report, CARB cited the CAT strategies and other existing strategies that may be utilized in achieving the remainder of the emissions reductions.

AB 32 required that CARB prepare a comprehensive "scoping plan" that identifies all strategies necessary to fully achieve the required 2020 emissions reductions. The 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) lays out a path to achieve targets for carbon neutrality and reduce anthropogenic greenhouse gas (GHG) emissions by 85 percent below 1990 levels no later than 2045, as directed by Assembly Bill 1279. The actions and outcomes in the plan will achieve: significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon.

California Air Resources Board

The California Air Resources Board (CARB), a part of the California Environmental Protection Agency (Cal/EPA), is responsible for the coordination and administration of both federal and State air pollution control programs within California. In this capacity, CARB conducts research, sets the CAAQS, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California as well as consumer products (e.g., hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions. CARB also has primary responsibility for the development of California's SIP, for which it works closely with the Air Quality Management Districts and the USEPA.

California Clean Air Act and Regional Air Quality Standards

Air Quality

The California Clean Air Act of 1988 requires nonattainment areas to achieve and maintain the CAAQS by the earliest practicable date, as well as requires local air districts to develop plans for attaining the State O_3, CO, SO_2, and NOx standards. At a local level, the San Diego County Air Pollution Control District (APCD) regulates air pollutant emissions within San Diego County. The APCD maintains air quality conditions in San Diego County through planning, regulation, and enforcement. The clean air strategy of the APCD includes the preparation of plans for the attainment of ambient air quality standards, adoption, and enforcement of rules and regulations concerning sources of air pollution, and issuance of permits for stationary sources of air pollution.

Odor

Because offensive odors rarely cause any physical harm and no requirements for their control are included in state or federal air quality regulations, local air districts often have no numerical rules or standards related to odor emissions, other than regulations related to nuisances. APCD Rule 51 (Public Nuisance) and California Health & Safety Code, Division 26, Part 4, Chapter 3, Section §41700 prohibit the emission of any material which causes nuisance to a considerable number of persons or endangers the comfort, health or safety of the public.

Global Climate Change

California has been a leader among states in outlining and aggressively implementing a comprehensive climate change strategy that is designed to result in a substantial reduction in total statewide GHG emissions in the future.

California's climate change strategy is multifaceted and involves a number of State agencies implementing a variety of State laws and policies. These California laws and policies are summarized below in addition to the local air district's guidelines for determining a project's impacts on climate change.

Executive Order S-3-05

EO S-3-05 established the following statewide emission reduction targets:

- Reduce GHG emissions to 2000 levels by 2010.
- Reduce GHG emissions to 1990 levels by 2020.
- Reduce GHG emissions to 80 percent below 1990 levels by 2050.

EO S-3-05 created a Climate Action Team (CAT) headed by the Cal/EPA and including several other State jurisdictional agencies. The CAT is tasked by EO S-3-05 with outlining the effects of climate change on California and recommending an adaptation plan. The CAT is also tasked with creating a strategy to meet the target emission reductions. In April 2006, the CAT published an initial report that accomplished these two tasks.

Executive Order S-01-07

EO S-01-07 mandates a State-wide goal to reduce the carbon intensity of transportation fuels by at least 10 percent by 2020. This target reduction was identified by CARB as one of the AB 32 early action measures identified in their October 2007 report.

Executive Order B-30-15

EO B-30-15 sets interim GHG targets of 40 percent below 1990 by 2030, to ensure California will meet the 2050 targets set by AB 32.

EO N-79-20/Advanced Clean Cars II

Advanced Clean Cars II accelerates requirements that automakers deliver an increasing number of zero-emission light-duty vehicles each year (beginning with 2026 models) and codifies EO N-79-20. The regulation applies to automakers (not dealers) and covers only new vehicle sales. It does not impact existing vehicles on the road, which will still be legal to own and drive. Sales of new zero-emission vehicles and plug-in hybrids will start with 35% in 2026, build to 68% in 2030, and reach 100% in 2035. In other words, 100% of new cars and light trucks sold in California will be zero-emission vehicles, including plug-in hybrid electric vehicles, by 2035.

Senate Bill 350

SB 350 codifies the GHG targets for 2030 set by EO B-30-15. To meet these goals, SB 350 also raises the Renewables Portfolio Standards from 33 percent renewable generation by 2020 to 50 percent renewable generation by December 31, 2030.

Senate Bill 375

SB 375 provides for the creation of a new regional planning document called a sustainable communities strategy (SCS). An SCS is a blueprint for regional transportation infrastructure and development that is designed to reduce GHG emission from cars and light trucks to target levels that will be set by CARB for 18 regions throughout California. Each of the various metropolitan planning organizations must prepare an SCS and include it in that region's regional transportation plan. The SCS can influence transportation, housing, and land use planning. CARB will determine whether the SCS will achieve the region's GHG emissions reduction goals.

Under SB 375, certain qualifying in-fill residential and mixed-use projects would be eligible for streamlined California Environmental Quality Act (CEQA) review.

AB 1279 (California Climate Crisis Act)

AB 1279 declares the policy of the State to achieve net zero greenhouse gas emissions as soon as possible, but no later than 2045. By 2045, statewide anthropogenic greenhouse gas emissions should be reduced to at least 85% below the 1990 levels, and thereafter, the State aims to achieve and maintain net negative greenhouse gas emissions. AB 1279 requires the State Board to work with relevant State agencies to ensure that updates to the scoping plan identify and recommend measures to achieve these policy goals and to identify and implement a variety of policies and strategies that enable carbon dioxide removal solutions and carbon capture, utilization, and storage technologies in California. AB 1279 also requires the State Board to submit an annual report.

San Diego County Air Pollution Control District

In San Diego County, the APCD is the regional agency responsible for the administration of federal and state air quality laws, regulations, and policies. Included in the APCD's tasks are monitoring of air pollution, preparation of the Regional Air Quality Strategy (RAQS) for the San Diego Air Basin, and promulgation of rules and regulations. The San Diego County APCD develops and adopts rules to regulate sources of air pollution in San Diego County. The rules most pertinent to the Project are briefly described below.

Rule 51 – Nuisance: Prohibits the discharge, from any source, of such quantities of air contaminants or other materials that cause or tend to cause injury, detriment, nuisance, annoyance to people and/or the public, or damage to any business or property.

Rule 55 – Fugitive Dust: Regulates fugitive dust emissions from any commercial construction or demolition activity capable of generating fugitive dust emissions, including active operations, open storage piles, and inactive disturbed areas, as well as track-out and carry-out onto paved roads beyond a project site.

Rule 67.0.1 – Architectural Coatings: Requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce volatile organic compounds (VOC) emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Rule 67.7 – Cutback and Emulsified Asphalts: Requires manufacturers, distributors, and end users of cutback and emulsified asphalt materials for the paving, construction, or maintenance of parking lots, driveways, streets, and highways to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC evaporation content.

Based on the County of San Diego Guidelines for Determining Significance Air Quality (San Diego County, 2007) project emissions are evaluated based on the quantitative emission thresholds established by the APCD. San Diego County has adopted as screening-level thresholds (SLTs), the Air Quality Impact Analysis (AQIA) trigger levels for new or modified stationary sources from the APCD Rules 20.2 and 20.3. The County has also adopted the SCAQMD's screening threshold of 55 pounds (lbs) per day or 10 tons per year as a significance threshold for $PM_{2.5}$, and the SCAQMD's Coachella Valley screening threshold of 75 lbs per day or 13.7 tons per year significance threshold for VOCs. The screening-level thresholds are summarized in **Table 5**. These thresholds are used to determine whether the Project would result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation or result in a cumulatively considerable net increase of PM_{10} or exceed quantitative thresholds for ozone precursors, NO_X and ROGs, project emissions.

Potential Impacts of Greenhouse Gas Emissions

Certain gases in the earth's atmosphere, classified as GHGs, play a critical role in determining the earth's surface temperature. GHGs include the following compounds: carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride (Health & Safety Code § 38505[g]).

Table 5: Screening-Level Thresholds for Air Quality Impact Analysis

Construction Emissions		**Total Emissions Pounds per Day**	
Respirable Particulate Matter (PM_{10})		100	
Fine Particulate Matter ($PM_{2.5}$)		55	
Oxides of Nitrogen (NOx)		250	
Oxides of Sulfur (SOx)		250	
Carbon Monoxide (CO)		550	
Volatile Organic Compounds (VOC)		75	
Operational Emissions	**Pounds Per Hour**	**Pounds per Day**	**Tons per Year**
Respirable Particulate Matter (PM_{10})	–	100	15
Fine Particulate Matter ($PM_{2.5}$)	–	55	10
Oxides of Nitrogen (NOx)	25	250	40
Oxides of Sulfur (SOx)	25	250	40
Carbon Monoxide (CO)	100	550	100
Lead and Lead Compounds	–	3.2	0.6
Volatile Organic Compounds (VOC)	–	75	13.7

Source: San Diego County, 2007

In addition to natural sources of GHG emissions, human activities are substantially changing the composition of the atmosphere and the ocean by modifying the land surface through deforestation and urbanization that reduces carbon capture and decreases albedo (Intergovernmental Panel on Climate Change [IPCC], 2014).

In particular, increased consumption of fossil fuels has substantially increased atmospheric levels of GHGs. Emissions of these gases are attributable to human activities associated with the industrial/manufacturing, utilities, transportation, residential, commercial, and agricultural sectors (CARB, 2021).

In 2019, transportation generated 41% of California's GHG emissions. This was followed by the industrial sector (24%), electricity generation in state (9%), commercial and residential (8%), agriculture and forestry (7%), commercial (6%), and electricity generation imports (5%) (CARB, 2021). Emissions of CO_2 and N_2O are byproducts of fossil fuel combustion, among other sources. CH_4 results from off-gassing associated with agricultural practices and landfills. Sinks of CO_2 include uptake by vegetation and dissolution into the ocean.

According to the United Nations IPCC and the USEPA, it is very likely (greater than 95% probability) that human activity is responsible for rising temperatures. The IPCC expects global temperatures to increase another 2 to 10 degrees Fahrenheit by 2100, depending on how much atmospheric GHG concentrations continue to rise, which has the potential to impact California and the San Diego County natural and economic environment. The following is an abbreviated list of potential impacts resulting from GHG emissions.

- Temperatures in San Diego County are expected to increase by 5˚F to as much as 10˚F by the end of the 21st century.

- In addition to higher temperatures, San Diego County will experience intensified heat waves more frequently.
- Precipitation patterns will become more extreme, with wetter winters, dryer springs, and more frequent, severe droughts.
- Drier conditions increase the risk of wildfires and threaten native plant and animal populations.
- An increase in heat-related human deaths and infectious diseases and a higher risk of respiratory problems caused by deteriorating air quality.
- Changes in growing season conditions that could affect California agriculture, causing variations in crop quality and yield.
- Changes in distribution of plant and wildlife species due to changes in temperature, competition of colonizing species, changes in hydrologic cycles, changes in sea levels, and other climate-related effects.

BIOLOGICAL RESOURCES – SECTION 3.5 OF THE EA

Federal

Federal Endangered Species Act (FESA)

The FESA protects species that are at risk of extinction and provides for the conservation of the ecosystems on which they depend. The U.S. Fish & Wildlife Service (USFWS) and the National Oceanic and Atmosphere Administration, Fisheries Service (NOAA Fisheries) share responsibility for implementing FESA. Generally, USFWS manages terrestrial and freshwater species, while NOAA Fisheries is responsible for marine and anadromous species. Threatened and endangered species on the federal list (50 CFR Sections 17.11 and 17.12) are protected from take, which is defined as direct or indirect harm. If "take" of a listed species is incidental to an otherwise lawful activity, this triggers the need for consultation under Section 7 of the FESA for federal agencies.

Pursuant to requirements of the FESA, a federal agency reviewing a proposed project within its jurisdiction must determine whether a federally listed species may be present on the site and whether the proposed project will have a potentially significant impact upon such species. Under the FESA, habitat loss is considered an impact to the species. In addition, the agency is required to determine whether the project is likely to jeopardize the continued existence of any species that is proposed for listing under the FESA or to result in the destruction or adverse modification of critical habitat proposed to be designated for such species (16 USC Section 1536[3], [4]). Therefore, project-related impacts to these species, or their habitats, would be considered significant.

Magnuson-Stevens Act and Sustainable Fisheries Act

The Magnuson–Stevens Fishery Conservation and Management Act (Magnuson-Stevens Act) is the primary law that governs marine fisheries management in U.S. federal waters. First passed in 1976, the Magnuson-Stevens Act fosters the long-term biological and economic sustainability of marine fisheries. Its objectives include: preventing overfishing; rebuilding overfished stocks; increasing long-term economic and social benefits; ensuring a safe and sustainable supply of seafood; and protecting habitat that fish need to spawn, breed, feed, and grow to maturity.

The Sustainable Fisheries Act of 1996 (Public Law 104-297) amended the Magnuson-Stevens Act to establish new requirements for fishery management councils to identify and describe Essential Fish Habitat (EFH) and to protect, conserve, and enhance EFH for the benefit of fisheries. EFH is defined as those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. The Sustainable Fisheries Act also established a federal EFH consultation process that advises federal agencies to avoid, minimize, mitigate, or otherwise offset adverse effects on EFH. Consultation is required if a federal agency has authorized, funded, or undertaken part or all of a proposed activity and the action will adversely affect EFH.

An adverse effect includes direct or indirect physical, chemical, or biological alternations to waters or substrate, species and their habitat, quality and/or quantity of EFH, or other ecosystem components. If a federal agency determines that an action will not adversely affect EFH, and NOAA Fisheries agrees, no consultation is required. A 2002 update to EFH regulations allowed fishery management councils to designate Habitat Areas of Particular Concern, specific areas within EFH that have extremely important ecological functions and/or are especially vulnerable to degradation.

Migratory Bird Treaty Act (MBTA)

Migratory birds are protected under the MBTA of 1918 (16 USC 703-711). The MBTA makes it unlawful to take, possess, buy, sell, purchase, or barter any migratory bird listed under 50 CFR 10, including feathers or other parts, nests, eggs, or products, except as allowed by implementing regulations (50 CFR 21). The direct injury or death of a migratory bird due to construction activities or other construction-related disturbance that causes nest abandonment, nestling abandonment, or forced fledging would be considered take under federal law. As such, project-related disturbances must be reduced or eliminated during the nesting season.

Bald and Golden Eagle Protection Act

The Bald and Golden Eagle Protection Act was originally enacted in 1940 to protect bald eagles and was later amended to include golden eagles (16 USC Subsection 668-668). This act prohibits take, possession, and commerce of bald and golden eagles and associated parts, feathers, nests, or eggs with limited exceptions. The definition of take is the same as the definition under the FESA. The USFWS established five recovery programs in the mid-1970s based on geographical distribution of the species, with California located in the Pacific Recovery Region. Habitat conservation efforts in the Pacific Recovery Region, including laws and management practices at federal, state, and community levels, have helped facilitate bald eagle population increases. Critical habitat for bald and golden eagles was not designated as part of the Pacific Recovery Plan created under FESA. Likewise, critical habitat was not designated by regulation under FESA.

In 1995, the USFWS reclassified the bald eagle from endangered to threatened under FESA in the contiguous 48 states, excluding Michigan, Minnesota, Wisconsin, Oregon, and Washington where it had already been listed as threatened. In 2007, the bald eagle was federally delisted under FESA. However, the provisions of the act remain in place for protection of bald and golden eagles.

Clean Water Act (Sections 404 and 401)

Any project that involves discharge of dredged or fill material into jurisdictional Waters of the U.S. must first obtain authorization from the USACE, under Section 404 of the CWA. Projects requiring a 404 permit under the CWA also require a Section 401 certification from either the USEPA for trust land, or the RWQCB for non-trust land. These two agencies also administer the NPDES general permits for construction activities disturbing one acre or more. Effective September 8, 2023, the USEPA and the USACE have issued a new final rule in the Code of Federal Regulations to conform the definition of ‘waters of the United States’ to the 2023 Supreme Court’s May 25, 2023 decision in Sackett vs. EPA. Under the new final rule, tributaries and wetlands must have a continuous surface connection to navigable waterways to be considered jurisdictional under the Clean Water Act. Only those relatively permanent, standing, or continuously flowing bodies of water meet the current definition. In certain states where litigation regarding this definition is ongoing, the pre-2015 definition of waters of the U.S. is in effect. California is not one of these states and currently operates under the definition as promulgated under the new final rule.

State and Local

California Endangered Species Act

The California Endangered Species Act (CESA) declares that certain plant or animal species will be given protection by the state because they are of ecological, educational, historical, recreational, aesthetic, economic, and scientific value to the people of the State. The CESA established that it is State policy to conserve, protect, restore, and enhance state-listed species and their habitats. Under State law, plant and animal species may be formally listed by the California Fish and Game Commission. Under CESA, those species that are listed are protected from take. CESA authorizes take that is ancillary to an otherwise lawful activity provided that one of the following occurs:

- For federally and state-listed species: a federal incidental take permit is issued in accordance with Section 10 of the FESA and the California Department of Fish and Wildlife (CDFW) certifies the incidental take statement.
- For state listed species that are not federally listed: an incidental take permit is acquired from CDFW consistent with CESA (California Fish & Game Code § 2080.1[a]).

California Fish and Game Code

The California Fish and Game Code defines "take" (Section 86) and prohibits take of a species listed under the CESA (California Fish and Game Code § 2080), or otherwise special status (California Fish and Game Code §§ 3511, 4700, and 5050). Section 2081(b) and (c) of the CESA allows CDFW to issue an incidental take permit for a State-listed species if specific criteria outlined in Title 14 CCR §§ 783.4(a), (b) and CDFW Code § 2081(b) are met. The CDFW Code § 3503 also states that it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird except as otherwise provided by the code. Section 3503.5 states that it is unlawful to take, possess, or destroy any birds in the taxonomic order Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird. Section 3513 states that it is unlawful to take or possess any migratory non-game bird as designated in the MBTA or any part of such migratory non-game bird except as provided by rules and regulations adopted by the U.S. Secretary of the Interior under provisions of the MBTA. CDFW cannot provide take authorization under the CESA for impacts to migratory birds.

Native Plant Protection Act of 1977

The Native Plant Protection Act of 1977 and implementing regulations in Section 1900 et seq. of the California Fish and Game Code designate special-status plant species and provide specific protection measures for identified populations. The CDFW administers the Native Plant Protection Act.

San Diego County General Plan

The Conservation and Open Space Element of the County's general plan identifies the County's goals and policies related to management of sensitive biological resources in the County. County policies include establishment of an inter-connected preserve system, promote long-term sustainable ecosystems, and protecting wetlands.

San Diego County Multiple Species Conservation Plan

In August 1998, the County published the Multiple Species Conservation Plan (MSCP), which encompasses significant portions of the eastern part of the County. The goal of the MSCP was to identify species and habitats critical for preservation and to streamline the permitting process for development impacts to species or habitats regulated by CDFW and/or USFWS. The MSHCP area is broken into three subareas: North County MSCP, East County MSCP, and South County MSCP. To date, the South County MSCP subarea plan has been completed and

adopted. The Project Site falls within the East County MSCP. Although a subarea plan has not been formally adopted for this area, it still falls within the scope of the overall MSCP.

CULTURAL AND PALEONTOLOGICAL RESOURCES – SECTION 3.6 OF THE EA

Federal

Section 106 of the National Historic Preservation Act (NHPA)

Section 106 of the NHPA, as amended, and its implementing regulations found in 36 CFR Part 800 require federal agencies to identify cultural resources that may be affected by actions involving federal lands, funds, or permitting. The BIA must comply with Section 106 for the proposed trust acquisition. The significance of the resources must be evaluated using established criteria outlined in 36 CFR 60.4, as described below. If a resource is determined to be a historic property, Section 106 of the NHPA requires that effects of the federal undertaking on the resource be determined. A historic property is defined as:

> *…any prehistoric or historic district, site, building, structure or object included in, or eligible for inclusion in the National Register of Historic Places, including artifacts, records, and material remains related to such a property… (NHPA Sec. 301[5])*

Section 106 of the NHPA prescribes specific criteria for determining whether a project would adversely affect a historic property, as defined in 36 CFR 800.5. An impact is considered adverse when prehistoric or historic archaeological sites, structures, or objects that are listed on or eligible for listing in the National Register of Historic Places (NRHP) are subjected to the following:

- Physical destruction of or damage to all or part of the property;
- Alteration of a property;
- Removal of the property from its historic location;
- Change of the character of the property's use or of physical features within the property's setting that contribute to its historic significance;
- Introduction of visual, atmospheric, or audible elements that diminish the integrity of the property's significant historic features;
- Neglect of a property that causes its deterioration; and
- Transfer, lease, or sale of the property out of federal control without adequate and legally enforceable restrictions or conditions to ensure long-term preservation of the property's historic significance.

If the historic property will be adversely affected by the undertaking, then prudent and feasible measures to resolve adverse impacts must be taken. The State Historic Preservation Office must be provided an opportunity to review and comment on these measures prior to project implementation.

National Register of Historic Places (NRHP)

The eligibility of a resource for listing in the NRHP is determined by evaluating the resource using criteria defined in 36 CFR § 60.4 as follows. The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and meet one or more of the following:

A) Are associated with events that have made a significant contribution to the broad patterns of history; or
B) Are associated with the lives of persons significant in our past; or
C) Embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
D) Have yielded, or may be likely to yield, information important in prehistory or history.

Sites younger than 50 years, unless of exceptional importance, are not eligible for listing in the NRHP. In addition to meeting at least one of the criteria listed above, the property must also retain enough integrity to enable it to convey its historic significance. The NRHP recognizes seven aspects or qualities that, in various combinations, define integrity. These seven elements of integrity are location, design, setting, materials, workmanship, feeling, and association. To retain integrity a property will always possess several, and usually most, of these aspects. While most historic buildings and many historic archaeological properties are significant because of their association with important events, people, or styles (Criteria A, B, and C), the significance of most prehistoric and some historic-period archaeological properties is usually assessed under Criterion D. Criterion D stresses the importance of the information contained in an archaeological site rather than its intrinsic value as a surviving example of a type or its historical association with an important person or event. It places importance not on physical appearance but rather on information potential.

Native American Graves Protection and Repatriation Act

The Native American Graves Protection and Repatriation Act (NAGPRA), 25 USC 3001 et seq., provides a process for museums and federal agencies to return Native American cultural items – human remains, funerary objects, sacred objects, or objects of cultural patrimony – to lineal descendants, and culturally affiliated Indian tribes and Native Hawaiian organizations. NAGPRA includes provisions for unclaimed and culturally unidentifiable Native American cultural items, intentional and inadvertent discovery of Native American cultural items on federal and Tribal lands, and penalties for noncompliance and illegal trafficking.

Archaeological Resources Protection Act of 1979

The Archaeological Resources Protection Act of 1979 (ARPA; Public Law 96-95; 16 USC 470aa-mm) provides for the protection of archaeological resources and sites that are on public and Indian lands and fosters increased cooperation and exchange of information between governmental authorities, the professional archaeological community, and private individuals having collections of archaeological resources and data that were obtained before October 31, 1979. ARPA also provides for penalties for noncompliance and illegal trafficking.

Paleontological Resources Preservation Act

Paleontological resources are defined as the traces or remains of prehistoric plants and animals. Such remains often appear as fossilized or petrified skeletal matter, imprints, or endocasts, and reside in sedimentary rock layers. Paleontological resources are considered important for their scientific and educational value. Fossil remains of vertebrates are considered significant. Invertebrate fossils are considered significant if they function as index fossils. Index fossils are those that appear in the fossil record for a relatively short and known period of time. This allows geologists to interpret the age range of the geological formations in which they are found. The Paleontological Resources Preservation subtitle of the Omnibus Public Land Management Act, 16 USC 470aaa to aaa-11 requires the U.S. Department of Agriculture (USDA) and the U.S. Department of the Interior to issue implementation regulations to provide for the preservation, management, and protection of paleontological resources on federal lands and ensure that these resources are available for current and future generations to enjoy as part of America's national heritage.

State and Local

San Diego County General Plan

The Conservation and Open Space Element of the General Plan addresses both cultural and paleontological resources within the County. The County has identified the following goals related to cultural resources:

- Protection and Preservation of Archaeological Resources. Protection and preservation of the County's important archeological resources for their cultural importance to local communities, as well as their research and educational potential.
- Protection and Conservation of the Historical Built Environment. Protection, conservation, use, and enjoyment of the County's important historic resources.

Additionally, the general plan identifies the following goal related to paleontological resources:

- Educational and Scientific Uses. Paleontological resources and unique geologic features conserved for educational and/or scientific purposes.

SOCIOECONOMIC CONDITIONS – SECTION 3.7 OF THE EA

There are no relevant laws and regulations associated with the socioeconomic regulatory setting.

TRANSPORTATION AND CIRCULATION – SECTION 3.8 OF THE EA

State and Local

San Diego County General Plan

The San Diego County General Plan Mobility Element that aims to provide a balanced, multi-modal transportation system for the movement of people and goods within the unincorporated areas of the County. It includes a description of the County's transportation network, goals and policies that address the safe and efficient operation, maintenance, and management of the transportation network. The goals and policies strive for a balanced multimodal transportation system with adequate capacity to support the land uses and development patterns in the Land Use Element of the General Plan (see "Land Use" below for additional information on the Land Use Element). The Mobility Element identifies the County road network, much of which currently exists, to be developed in the unincorporated County during the implementation of this General Plan so that future rights-of-way can be preserved for future motorized and non-motorized roadway purposes.

Mobility Element

Goal M-2: Responding to Physical Constraints and Preservation Goals. A road network that provides adequate capacity to reasonably accommodate both planned land uses and regional traffic patterns, while supporting other General Plan goals such as providing environmental protections and enhancing community character.

> **M-2.1 Level of Service Criteria.** Require development projects to provide associated road improvements necessary to achieve a level of service of "D" or higher on all Mobility Element roads except for those where a failing level of service has been accepted by the County pursuant to the criteria specifically identified in the accompanying text box (Criteria for Accepting a Road Classification with Level of Service E/F).

When development is proposed on roads where a failing level of service has been accepted, require feasible mitigation in the form of road improvements or a fair share contribution to a road improvement program, consistent with the Mobility Element road network.

M-2.3 Environmentally Sensitive Road Design. Locate and design public and private roads to minimize impacts to significant biological and other environmental and visual resources. Avoid road alignments through floodplains to minimize impacts on floodplain habitats and limit the need for constructing flood control measures. Design new roads to maintain wildlife movement and retrofit existing roads for that purpose. Utilize fencing to reduce roadkill and to direct animals to under crossings.

M-2.4 Roadway Noise Buffers. Incorporate buffers or other noise reduction measures consistent with standards established in the Noise Element into the siting and design of roads located next to sensitive noise-receptors to minimize adverse impacts from traffic noise. Consider reduction measures such as alternative road design, reduced speeds, alternative paving, and setbacks or buffers, prior to berms and walls.

M-2.5 Minimize Excess Water Runoff. Require road improvements to be designed and constructed to accommodate stormwater in a manner that minimizes demands upon engineered stormwater systems and to maximize the use of natural detention and infiltration techniques to mitigate environmental impacts.

Goal M-3: New or expanded transportation facilities that are phased with and equitably funded by the development that necessitates their construction.

M-3.1 Public Road Rights-of-Way. Require development to dedicate right-of-way for public roads and other transportation routes identified in the Mobility Element roadway network (see Mobility Element Network Appendix), Community Plans, or Road Master Plans. Require the provision of sufficient right-of-way width, as specified in the County Public Road Standards, Active Transportation Plan and Community Trails Master Plan, to adequately accommodate all users, including transit riders, pedestrians, bicyclists, and equestrians.

M-3.2 Traffic Impact Mitigation. Require development to contribute its fair share toward financing transportation facilities, including mitigating the associated direct and cumulative traffic impacts caused by their project on both the local and regional road networks. Transportation facilities include road networks and related transit, pedestrian and bicycle facilities, and equestrian.

M-3.3 Multiple Ingress and Egress. Require development to provide multiple ingress/egress routes in conformance with State law and local regulations.

Goal M-4: **Safe and Compatible Roads**. Roads designed to be safe for all users and compatible with their context

M-4.4 Accommodate Emergency Vehicles. Design and construct public and private roads to allow for necessary access for appropriately-sized fire apparatus and emergency vehicles while accommodating outgoing vehicles from evacuating residents.

Goal M-8: **Public Transit System**. A public transit system that reduces automobile dependence and serves all segments of the population.

M-8.5 Improved Transit Facilities. Require development projects, when appropriate, to improve existing nearby transit and/or park and ride facilities, including the provision of bicycle and pedestrian facilities, provisions for bus transit in coordination with NCTD and MTS as appropriate including, but not limited to, shelters, benches, boarding pads, and/or trash cans, and to provide safe, convenient, and attractive pedestrian connections.

Goal M-11: **Bicycle and Pedestrian Facilities**. Bicycle and pedestrian networks and facilities that provide safe, efficient, and attractive mobility options as well as recreational opportunities for County residents.

M-11.4 Pedestrian and Bicycle Network Connectivity. Require development in Villages and Rural Villages to provide comprehensive internal pedestrian and bicycle networks that connect to existing or planned adjacent community and countywide networks.

LAND USE – SECTION 3.9 OF THE EA

Federal

Farmland Protection Policy Act

The Farmland Protection Policy Act (FPPA) is intended to minimize the impact federal programs have on the unnecessary and irreversible conversion of farmland to nonagricultural uses. It assures that federal programs are administered in a matter that is compatible with state and local units of government, and private programs and policies to protect farmland (7 U.S.C. § 4201).

The Natural Resource Conservation Service (NRCS) is responsible for the implementation of the FPPA and categorizes farmland in a number of ways. These categories include prime farmland, farmland of statewide importance, and unique farmland. Prime farmland is considered to have the best possible features to sustain long-term productivity. Farmland of statewide importance includes farmland similar to prime farmland, but with minor shortcomings, such as greater slopes or less ability to store soil moisture. Unique farmland is characterized by inferior soils and, depending on climate, generally needs irrigation.

The NRCS fulfills the directives of the Soil and Water Conservation Act (16 USC § 2001-2009) by identifying significant areas of concern for the protection of national resources. NRCS uses a land evaluation and site assessment system to establish a Farmland Conversion Impact Rating (FCIR) score. The FCIR is completed on form AD-1006. The FCIR form has two components: land evaluation, which rates soil quality up to 100 points, and the site assessment, which measures other factors that affect the property's viability up to 160 points.

The total FCIR score is used as an indicator for the project's sponsor to consider alternative sites if the potential adverse impacts on the farmland exceed the allowable level; however, the FPPA does not require federal agencies to alter projects to avoid or minimize farmland conversion. Sites receiving a combined score of less than 160 (out of 260 possible points) do not require further evaluation. For sites with a combined score greater than 160 points, at least two other alternatives are required to be considered and the alternative with the lowest number of points selected unless there are other overriding considerations.

State and Local

Williamson Act

The California Land Conservation Act of 1965, commonly known as the Williamson Act, is designed to preserve farmlands and open space lands by discouraging premature and unnecessary conversion to urban uses. Under the provisions of the Williamson Act, landowners contract with the county to maintain agricultural or open space use of their lands in return for a reduced property tax assessment. The contract is self-renewing and the landowner may notify the county at any time of intent to withdraw the land from its preserve status. Withdrawal involves a 10-year period of tax adjustment to full market value before protected open space can be converted to urban uses. Alternatively, landowners can petition the County to withdraw prematurely from a Williamson Contract. In order to cancel a contract without instituting the 10-year tax adjustment period, the County must make the required findings that the cancellation is consistent with the purposes of the Williamson Act, and that cancellation is in the public interest.

San Diego County General Plan

The current 2022 San Diego County General Plan was the first comprehensive update since 1978, and this version of the plan has been periodically updated since its first 2011 draft. The various elements in the plan guide planning decisions in the County, with goals of protecting the County's unique and diverse natural resources and maintaining the character of its rural and semi-rural communities. The 2022 General Plan provides an environmentally sustainable approach to planning that strives to balance infrastructure needs, housing, and economic vitality, while maintaining and preserving each unique community within the County, agricultural areas, and extensive open space.

Land Use Element

The San Diego County General Plan Land Use Elements contains goals, objectives, and policies to guide development within the County. The General Plan has identified three regional categories, Village, Semi-Rural, and Rural Lands, that reflect the different character and land use development goals of the County in each of these three community types.

Goal LU-1: Primacy of the Land Use Element. A land use plan and development doctrine that sustain the intent and integrity of the Community Development Model and the boundaries between Regional Categories.

> **LU-1.3 Development Patterns.** Designate land use designations in patterns to create or enhance communities and preserve surrounding rural lands.
>
> **LU-1.5 Relationship of County Land Use Designations with Adjoining Jurisdictions.** Prohibit the use of established or planned land use patterns in nearby or adjacent jurisdictions as the primary precedent or justification for adjusting land use designations of unincorporated County lands. Coordinate with adjacent cities to ensure that land use designations are consistent with existing and planned infrastructure capacities and capabilities.

Goal LU-2: Maintenance of the County's Rural Character. Conservation and enhancement of the unincorporated County's varied communities, rural setting, and character.

> **LU-2.1 Community Plans.** Maintain updated Community Plans, as part of the General Plan, to guide development to reflect the character and vision for each individual unincorporated community, consistent with the General Plan.

LU-2.5 Greenbelts to Define Communities. Identify and maintain greenbelts between communities to reinforce the identity of individual communities.

LU-2.8 Mitigation of Development Impacts. Require measures that minimize significant impacts to surrounding areas from uses or operations that cause excessive noise, vibrations, dust, odor, aesthetic impairment and/or are detrimental to human health and safety.

LU-2.9 Maintaining Rural Character. Consider level of service criteria, in accordance with Policy M-2.1, to determine whether adding lanes to a Mobility Element road would adversely impact the rural character of a community or cause significant environmental impacts. In those instances, consider other options to mitigate LOS where appropriate.

Goal LU-4: Inter-jurisdictional Coordination. Coordination with the plans and activities of other agencies and tribal governments that relate to issues such as land use, community character, transportation, energy, other infrastructure, public safety, and resource conservation and management in the unincorporated County and the region.

LU-4.1 Regional Planning. Participate in regional planning to ensure that the unique communities, assets, and challenges of the unincorporated lands are appropriately addressed with the implementation of the planning principles and land use requirements, including the provisions of SB375.

LU-4.2 Review of Impacts of Projects in Adjoining Jurisdictions. Review, comment, and coordinate when appropriate on plans, projects, and proposals of overlapping or neighboring agencies to ensure compatibility with the County's General Plan, and that adjacent communities are not adversely impacted.

Goal LU-6: Development—Environmental Balance. A built environment in balance with the natural environment, scarce resources, natural hazards, and the unique local character of individual communities.

LU-6.1 Environmental Sustainability. Require the protection of intact or sensitive natural resources in support of the long-term sustainability of the natural environment.

LU-6.5 Sustainable Stormwater Management. Ensure that development minimizes the use of impervious surfaces and incorporates other Low Impact Development techniques as well as a combination of site design, source control, and stormwater best management practices, where applicable and consistent with the County's LID Handbook.

LU-6.6 Integration of Natural Features into Project Design. Require incorporation of natural features (including mature oaks, indigenous trees, and rock formations) into proposed development and require avoidance of sensitive environmental resources.

Conservation and Open Space Element

The Conservation and Open Space Element of the San Diego County General Plan establishes goals, policies, and programs that value and protect natural resources, with the primary objectives of preserving the diverse range of visual, natural, and cultural resources that exemplify the County. Goals and policies within this Element are divided into nine sections to address and protect the following resources:

- *Biological Resources*—Land use-based conservation goals and policies that protect the ecological and lifecycle needs of threatened, endangered, or otherwise sensitive species and their associated habitats.

- *Water Resources*—Conserve and efficiently use water and protect the groundwater aquifer, water bodies, and water courses, which include reservoirs, rivers, streams, and the watersheds located throughout the region.
- *Agricultural Resources*—Minimize land use conflicts, preserve agricultural resources, and support the long-term presence and viability of agricultural industry as an important component of the region's economy and open space linkage.
- *Cultural Resources*—Federal and State legislation such as the *National Environmental Policy Act* (NEPA), *National Historic Preservation Act* (NHPA), and *California Environmental Quality Act* (CEQA) establish requirements to ensure cultural resources are protected and preserved. This section supplements this legislation with goals and policies that set the framework for local ordinances and regulations that protect these important cultural resources.
- *Paleontological Resources and Unique Geologic Features*—Preserve the County's rich geologic and paleontological history by establishing achievable land-use-based goals and policies.
- *Mineral Resources*—Manage the remaining mineral deposits while striving to ensure that adequate resources are available to support the economic prosperity of future generations of San Diego County residents.
- *Visual Resources*—Protect scenic corridors, geographically extensive scenic viewsheds, and dark skies within the natural environment.
- *Air Quality, Climate Change, and Energy*—Reduce the emissions of criteria air quality pollutants, emissions of greenhouse gases, and energy use in buildings and infrastructure, while promoting the use of renewable energy sources, conservation, and other methods of efficiency.
- *Park and Recreation Facilities*—Ensure that adequate park and recreational facilities will adequately serve current and future residents.

Alpine Community Plan

In spring 2017, the County began updating the existing Alpine Community Plan, the first comprehensive update of the Community Plan since its adoption in 1979. The updated Alpine Community Plan will reflect the latest General Plan (2011) and other State requirements and County plans and programs, accommodate for population and demographic changes, address future infrastructure needs and climate change, protect sensitive natural resources and habitats, and reflect the current community's vision for the future. A draft was circulated for public review that ended in 2021, and the updated plan has not yet been adopted.

San Diego County Zoning Ordinance

The San Diego County Zoning Ordinance (Ordinance No. 5281) regulates development in the unincorporated areas of the County by establishing districts and designating lawful permitted uses and uses which may be approved through the use permit process. The purpose of the Zoning Ordinance shall be to serve the public health, safety and general welfare and to provide the advantages resulting from the implementation of the San Diego County General Plan. The Zoning Ordinance provides the following description of zoning found on the Project Site:

> *A70 Limited Agricultural Use Regulations. The A70 Use Regulations are intended to create and preserve areas intended primarily for agricultural crop production. Additionally, a limited number of small farm animals may be kept and agricultural products raised on the premises may be processed. Typically, the A70 Use Regulations would be applied to areas throughout the County to protect moderate to high quality agricultural land.*

PUBLIC SERVICES AND UTILITIES– SECTION 3.10 OF THE EA

Federal

Safe Drinking Water Act and Clean Water Act

See **Water Resources – Section 3.3 of the EA** above.

Public Law 280

Public Law 280 was enacted in 1953 to grant certain states criminal jurisdiction over Indians on reservations in addition to permitting civil litigation under tribal or federal court jurisdiction to be handled by state courts. The states mandated to assume criminal and civil jurisdiction over federal Indian lands are Alaska, California, Minnesota, Nebraska, Oregon, and Wisconsin, although certain tribal lands are exempt, including Metlakatla Indian Community on the Annette Island Reserve, Red Lake Reservation, and Warm Springs Reservation. In addition to these states, other states elected to assume full or partial responsibility, including Arizona, Florida, Idaho, Iowa, Montana, Nevada, North Dakota and Utah. The federal government relinquished all special criminal jurisdictions over Indian offenders and victims in these states. However, Public Law 280 does not grant states the following regulatory powers over lands held in federal trust or tribes:

- Federally guaranteed fishing, tribal hunting, and trapping rights;
- Fundamental tribal governmental functions, such as domestics relations and tribal enrollment; and
- Authority to impose state taxes.

Due to the one-sided process that imposed state jurisdiction on tribes and the complete failure to recognize tribal sovereignty and tribal self-determination, Public Law 280 was opposed by Indian Nations from its enactment. Subsequent acts of Congress, court decisions, and state actions to retrocede (or give back) jurisdiction back to the federal government have mitigated some of the effects of the 1953 law and strengthened tribes' jurisdiction over civil and criminal matters on their reservations.

State and Local

California Integrated Waste Management Act (Assembly Bill 939)

In 1989, the State of California enacted AB 939, the California Integrated Waste Management Act, which requires jurisdictions to conduct a solid waste disposal needs assessment that estimates the disposal capacity needed to accommodate projected solid waste generated within the jurisdiction and to identify a minimum of 15 years of permitted disposal capacity. All local jurisdictions are required to divert 50 percent of their total waste stream from landfill disposal.

NOISE – SECTION 3.11 OF THE EA

Federal

Federal Highway Administration (FHWA) Construction Noise Abatement Criteria (NAC)

The FHWA provides construction noise level thresholds in its Construction Noise Handbook, 2006. These are provided in **Table 6**.

Table 6: Federal Construction Noise Thresholds (dBA, Leq)

Noise Receptor Locations and Land Uses	Daytime (7 am - 6 pm)	Evening (6 pm - 10 pm)	Nighttime (10 pm - 7 am)
Noise-Sensitive Locations (residences, institutions, hotels, etc.)	78 or Baseline +5 (whichever is louder)	Baseline + 5	Baseline + 5 (if Baseline < 70) or Baseline + 3 (if Baseline > 70)
Commercial Areas (businesses, offices, stores, etc.)	83 or Baseline + 5	None	None
Industrial Areas (factories, plants, etc.)	88 or Baseline + 5	None	None

Source: FHWA, 2006

Federal Noise Abatement Criteria

Operational noise standards used in this study are FHWA Noise Abatement Criteria (NAC) for the assessment of noise consequences related to surface traffic and other project-related noise sources. These standards are discussed below. The FHWA establishes NAC for various land uses that have been categorized based upon activity. Land uses are categorized on the basis of their sensitivity to noise as indicated in **Table 7**. The FHWA NAC is based on peak traffic hour noise levels. Sensitive receptors with the potential to be impacted by the project alternatives primarily consist of residential land uses; thus, the Category B noise standard (67 dBA L_{eq}) would apply to those uses.

Table 7: Federal Noise Abatement Criteria Hourly A-Weighted Sound Level Decibels

Activity Category	Activity Criteria Leq (h), dBA	Evaluation Location	Activity Category Description
A	57	Exterior	Lands on which serenity and quiet are of extraordinary significance and serve an important public need and where the preservation of those qualities is essential if the area is to continue to serve its intended purpose.
B	67	Exterior	Residential.
C	67	Exterior	Active sport areas, amphitheaters, auditoriums, campgrounds, cemeteries, daycare centers, hospitals, libraries, medical facilities, parks, picnic areas, places of worship, playgrounds, public meeting rooms, public or nonprofit institutional structures, radio studios, recording studios, recreation areas, Section 4(f) sites, schools, television studios, trails and trail crossings.
D	52	Interior	Auditoriums, daycare centers, hospitals, libraries, medical facilities, places of worship, public meeting rooms, public or non-profit institutional structures, radio studios, recording studios, schools, and television studios.
E[1]	72	Exterior	Hotels, motels, offices, restaurants/bars, and other developed lands, properties or activities not included in A-D or F.
F	--	--	Agriculture, airports, bus yards, emergency services, industrial, logging, maintenance facilities, shipyards, utilities (water resources, water treatment, electricity), and warehousing.
G	--	--	Undeveloped lands that are not permitted.

Source: Title 23 CFR Part 772, Table 1 to Part 772 – Noise Abatement Criteria

State and Local

San Diego County General Plan

The Noise Element of the General Plan identifies noise and land use compatibility guidelines for various land uses. The land use compatibility table is shown in **Table 8**. The County's General Plan Noise Element also provides recommendations for maximum noise levels for specific land uses, which are shown in **Table 9**. In addition to the compatibility guidelines and noise standards, the General Plan has the following policies related to noise:

Table 8: Noise Compatibility Guidelines for Exterior Noise Level (CNEL; Table N-1)

	Land Use Category		55	60	65	70	75	80	
A	Residential – single family residences, mobile homes, senior housing, convalescent homes								
B	Residential – multi-family residences, mixed-use (commercial/residential)								
C	Transient lodging – motels, hotels, resorts								
D	Schools, churches, hospitals, nursing homes, child care facilities								
E	Passive recreation parks, nature preserve, contemplative spaces, cemeteries								
F*	Active parks, golf courses, athletic fields, outdoor spectator sports, water recreation								
G*	Office/professional, government, medical/dental, commercial, retail, laboratories								
H*	Industrial, manufacturing, utilities, agriculture, mining, stables, ranching, warehouse, maintenance/repair								

	ACCEPTABLE – specific land use is satisfactory, based upon the assumption that any buildings involved are of normal construction, without any special noise insultation requirements.
	CONDITIONALLY ACCEPTABLE – New construction or development should be undertaken only after a detailed noise analysis is conducted to determine if noise reduction measures are necessary to achieve acceptable levels for land use. Criteria for determining exterior and interior noise levels are listed in Table N-2, Noise Standards. If a project cannot mitigate noise to a level deemed Acceptable, the appropriate county decision-maker must determine that mitigation has been provided to the greatest extent practicable or that extraordinary circumstances exist
	UNACCEPTABLE – New construction or development shall not be undertaken

*Denotes facilities used for part of the day; therefore, an hourly standard would be used rather than CNEL (Refer to Table N-2)
CNEL = Community Noise Equivalent Level
Source: San Diego County, 2021

Table 9: Noise Standards (Table N-2)

1.	The exterior noise level (as defined in item 3) standard for Category A shall be 60 Community Noise Equivalent Level (CNEL), and the interior noise level standard for indoor habitable room shall be 45 CNEL.
2.	The exterior noise level standard for Categories B and C shall be 65 CNEL, and the interior noise level standard for indoor habitable rooms shall be 45 CNEL.
3.	The exterior noise level standard Categories D and G shall be 65 CNEL and the interior noise level standard shall be 50 dBA L_{eq} (one hour average).
4.	For single-family detached dwelling units, “exterior noise level” is defined as the noise level measured at an outdoor living area which adjoins and is on the same lot as the dwelling, and which contains at least the following minimum net lot area: (i) for lots less than 4,000 square feet in area, the exterior area shall include 400 square feet, (ii) for lots between 4,000 square feet to 10 acres in area, the exterior area shall include 10% of the lot area; (iii) for lots over 10 acres in area, the exterior area shall include 1 acre.
5.	For all other residential land uses, "exterior noise level" is defined as noise measured at exterior areas which are provided for private or group usable open space purposes. “Private Usable Open Space” is defined as usable open space intended for use of occupants of one dwelling unit, normally including yards, decks, and balconies. When the noise limit for Private Usable Open Space cannot be met, then a Group Usable Open Space that meets the exterior noise level standard shall be provided. “Group Usable Open Space” is defined as usable open space intended for common use by occupants of a development, either privately owned and maintained or dedicated to a public agency, normally including swimming pools, recreation courts, patios, open landscaped areas, and greenbelts with pedestrian walkways and equestrian and bicycle trails, but not including off-street parking and loading areas or driveways.
6.	For non-residential noise sensitive land uses, exterior noise level is defined as noise measured at the exterior area provided for public use.
7.	For noise sensitive land uses where people normally do not sleep at night, the exterior and interior noise standard may be measured using either CNEL or the one-hour average noise level determined at the loudest hour during the period when the facility is normally occupied.
8.	The exterior noise standard does not apply for land uses where no exterior use area is proposed or necessary, such as a library.
9.	For Categories E and F, the exterior noise level standard shall not exceed the limit defined as “Acceptable” in Table N-1 or an equivalent one-hour noise standard.

Note: Exterior Noise Level computability guidelines for Land Use Categories A-H are identified in Table N-1, Noise Compatibility Guidelines.
Source: San Diego County, 2021

Policy N-3.1: Use the Federal Transit Administration and Federal Railroad Administration guidelines, where appropriate, to limit the extent of exposure that sensitive uses may have to groundborne vibration from trains, construction equipment, and other sources.

Policy N-4.6: For County road improvement projects, evaluate the proposed project against ambient noise levels to determine whether the project would increase ambient noise levels by more than three decibels. If so, apply the limits in the noise standards listed in Table N-2 for noise sensitive land uses that may be affected by the increased noise levels. For federally funded roadway construction projects, use the limits in the applicable Federal Highway Administration Standards.

County of San Diego Municipal Code

The County of San Diego Municipal Code Section 36.404 establishes general sound limits for stationary noise sources. The relevant criteria are reproduced below:

(a) Except as provided in section 36.409 of this chapter, it shall be unlawful for any person to cause or allow the creation of any noise, which exceeds the one-hour average sound level limits in Table 36.404 [reproduced as **Table 10**] when the one-hour average sound level is measured at the property line of the property on which the noise is produced or at any location on a property that is receiving the noise.

(c) S88 zones are Specific Planning Areas which allow different uses. The sound level limits in Table 36.404 above that apply in an S88 zone depend on the use being made of the property. The limits in Table 36.404 [reproduced as **Table 10**], subsection (1) apply to property with a residential, agricultural or civic use. The limits in subsection (3) apply to property with a commercial use. The limits in subsection (5) apply to property with an industrial use that would only be allowed in an M50, M52 or M54 zone. The limits in subsection (6) apply to all property with an extractive use or a use that would only be allowed in an M56 or M58 zone.

(d) If the measured ambient noise level exceeds the applicable limit in Table 36.404 [reproduced as **Table 10**], the allowable one-hour average sound level shall be the one-hour average ambient noise level, plus three decibels. The ambient noise level shall be measured when the alleged noise violation source is not operating.

(e) The sound level limit at a location on a boundary between two zones is the arithmetic mean of the respective limits for the two zones. The one-hour average sound level limit applicable to extractive industries, however, including but not limited to borrow pits and mines, shall be 75 decibels at the property line regardless of the zone in which the extractive industry is located.

Table 10: Sound Level Limits in Decibels (dBA) (Table 36.404)

Zone	Time	One-Hour Average Sound Level Limits (dBA)
(1) RS, RD, RR, RMH, A70, A72, S80, S81, S90, S92, RV, and RU with a General Plan Land Use Designation density of less than 10.9 dwelling units per acre.	7 am to 10 pm	50
	10 pm to 7 am	45
(2) RRO, RC, RM, S86, FB-V5, RV and RU with a General Plan Land Use Designation density of 10.9 or more dwelling units per acre.	7 am to 10 pm	55
	10 pm to 7 am	50
(3) S94, FB-V4, AL-V2, AL-V1, AL-CD, RM-V5, RM-V4, RM-V3, RM-CD and all commercial zones.	7 am to 10 pm	60
	10 pm to 7 am	55
(4) FB-V1, FB-V2, RM-V1, RM-V2	7 am to 7 pm	60
	7 pm to 10 pm	55
FB-V1, RM-V2	10 pm to 7 am	55
FB-V2, RM-V1	10 pm to 7 am	50
FB-V3	7 am to 10 pm	70
	10 pm to 7 am	65
(5) M50, M52, and M54	Anytime	70 70
(6) S82, M56, and M58.	Anytime	75
(7) S88 (see subsection (c) below)		

Sec. 36.408. Hours

Except for emergency work, it shall be unlawful for any person to operate or cause to be operated, construction equipment:

(a) Between 7 pm and 7 am

(b) On a Sunday or a holiday. For purposes of this section, a holiday means January 1st, the last Monday in May, July 4th, the first Monday in September, the fourth Thursday in November and December 25th. A person may, however, operate construction equipment on a Sunday or holiday between the hours of 10 am and 5 pm at the person's residence or for the purpose of constructing a residence for himself or herself, provided that the operation of construction equipment is not carried out for financial consideration or other consideration of any kind and does not violate the limitations in sections 36.409 and 36.410.

(Amended by Ord. No. 9962 (N.S.), effective 1-9-09; amended by Ord. No. 10364 (N.S.), effective 1-2-15)

Sec. 36.409. Sound Level Limitations on Construction Equipment.

Except for emergency work, it shall be unlawful for any person to operate construction equipment or cause construction equipment to be operated, that exceeds an average sound level of 75 decibels for an eight-hour period, between 7 am and 7 pm, when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is being received.

(Amended by Ord. No. 9700 (N.S.), effective 2-4-05; amended by Ord. No. 9962 (N.S.), effective 1-9-09)

Sec. 36.410. Sound Level Limitations on Impulsive Noise.

In addition to the general limitations on sound levels in section 36.404 and the limitations on construction equipment in section 36.409, the following additional sound level limitations shall apply:

(a) Except for emergency work or work on a public road project, no person shall produce or cause to be produced an impulsive noise that exceeds the maximum sound level shown in Table 36.410A [reproduced as **Table 11**] when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is received, for 25% of the minutes in the measurement period, as described in subsection (c) below. The maximum sound level depends on the use being made of the occupied property. The uses in Table 36.410A [reproduced as **Table 11**] are as described in the County Zoning Ordinance.

Table 11: Maximum Sound Level Measured at Occupied Property (Table 36.410A)

Occupied Property Use	Decibels (dBA)
Residential, village zoning or civic use	82
Agricultural, commercial, or industrial use	85

(b) Except for emergency work, no person working on a public road project shall produce or cause to be produced an impulsive noise that exceeds the maximum sound level shown in Table 36.410B (**Table 12**), when measured at the boundary line of the property where the noise source is located or on any occupied property where the noise is received, for 25% of the minutes in the measurement period, as described in subsection (c) below.

The maximum sound level depends on the use being made of the occupied property. The uses in Table 36.410B (**Table 12**) are as described in the County Zoning Ordinance.

Table 12: L_{max} Measured at Occupied Property for Public Road Projects (Table 36.410B)

Occupied Property Use	Decibels (dBA)
Residential, village zoning or civic use	85
Agricultural, commercial, or industrial use	90

(c) The minimum measurement period for any measurements conducted under this section shall be one hour. During the measurement period a measurement shall be conducted every minute from a fixed location on an occupied property. The measurements shall measure the maximum sound level during each minute of the measurement period.
If the sound level caused by construction equipment or the producer of the impulsive noise exceeds the maximum sound level for any portion of any minute, it will be deemed that the maximum sound level was exceeded during that minute.

(Added by Ord. No. 9962 (N.S.), effective 1-9-09)

Acoustical Background and Terminology

Noise is often described as unwanted sound. Sound is defined as any pressure variation in air that the human ear can detect. If the pressure variations occur frequently enough (at least 20 times per second), they can be heard and are designated as sound. The number of pressure variations per second is called the frequency of sound and is expressed as cycles per second, or Hertz (Hz). Measuring sound directly in terms of pressure would require a very large and awkward range of numbers. To avoid this, the decibel scale was devised. The decibel scale uses the hearing threshold (20 micropascals of pressure) as a point of reference, defined as 0 decibel (dB). Other sound pressures are then compared to the reference pressure, and the logarithm is taken to keep the numbers in a practical range. The decibel scale allows a million-fold increase in pressure to be expressed as 120 dB. Another useful aspect of the decibel scale is that changes in decibel levels correspond closely to human perception of relative loudness. Noise levels associated with common noise sources are provided in **Table 13.**

The perceived loudness of sounds is dependent upon many factors, including sound pressure level and frequency content. However, within the usual range of environmental noise levels, perception of loudness is relatively predictable and can be approximated by filtering the frequency response of a sound level meter by means of the standardized A-weighting network. There is a strong correlation between A-weighted sound levels (expressed as dBA) and community response to noise. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment. All noise levels presented in this evaluation are in terms of A-weighted levels.

Community noise is commonly described in terms of the ambient noise level, which is defined as the all-encompassing noise level associated with a given noise environment. A common statistical tool to measure the ambient noise level is the average, or equivalent, sound level (L_{eq}). The L_{eq} is the foundation of the day-night average noise descriptor, DNL (or L_{dn}), and shows very good correlation with community response to noise. DNL is based on the average noise level over a 24-hour day, with a +10-decibel weighting applied to noise occurring during nighttime (10:00 PM to 7:00 AM) hours. The nighttime penalty is based on the assumption that people react to nighttime noise exposures as though they were twice as loud as daytime exposures. Because DNL represents a 24-hour average, it tends to disguise short-term variations in the noise environment.

Table 13: Typical Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
	110	Rock Band
Jet Fly-over at 300 m (1,000 ft.)	100	
Gas Lawn Mower at 1 m (3 ft.)	90	
Diesel Truck at 15 m (50 ft.), at 80 km/hr. (50 mph)	80	Food Blender at 1 m (3 ft.) Garbage Disposal at 1 m (3 ft.)
Noisy Urban Area, Daytime Gas Lawn Mower, 30 m (100 ft.)	70	Vacuum Cleaner at 3 m (10 ft.)
Commercial Area Heavy Traffic at 90 m (300 ft.)	60	Normal Speech at 1 m (3 ft.)
Quiet Urban Daytime	50	Large Business Office Dishwasher in Next Room
Quiet Urban Nighttime	40	Theater, Large Conference Room (Background)
Quiet Suburban Nighttime	30	Library
Quiet Rural Nighttime	20	Bedroom at Night, Concert Hall (Background)
	10	Broadcast/Recording Studio
Lowest Threshold of Human Hearing	0	Lowest Threshold of Human Hearing

Source: Caltrans, 2013

The effects of noise on people can be divided into three categories:

- Subjective effects of annoyance, nuisance, dissatisfaction;
- Interference with activities such as speech, sleep, and learning; and
- Physiological effects such as hearing loss or sudden startling.

Environmental noise typically produces effects in the first two categories. Workers in industrial plants can experience noise in the third category. There is no completely satisfactory way to measure the subjective effects of noise, or the corresponding reactions of annoyance and dissatisfaction. A wide variation in individual thresholds of annoyance exists, and different tolerances to noise tend to develop based on an individual's past experiences with noise. Human reaction to a new noise can be estimated through comparison of the new noise to the existing ambient noise level within a given environment. In general, the more a new noise exceeds the previously existing ambient noise level, the less acceptable the new noise will likely be judged by the recipients. With regard to increases in dBA noise levels, the following relationships occur:

- Except in carefully controlled laboratory experiments, a change of 1 dBA cannot be perceived.
- Outside of the laboratory, a 3-dBA change is considered a just-perceivable difference.
- A change in level of at least 5 dBA is required before any noticeable change in human response would be expected.
- A 10-dBA change is subjectively heard as approximately a doubling in loudness and can cause adverse response.

Noise effects on humans can be physical or behavioral in nature. The mechanism for chronic exposure to noise leading to hearing loss is well established. Elevated sound levels cause trauma to the cochlear structure in the inner ear, which gives rise to irreversible hearing loss. Though not considered a health effect as those noted above, noise pollution also constitutes a significant factor of annoyance and distraction in modern artificial environments:

- The meaning listeners attribute to the sound influences annoyance; if listeners dislike the noise content, they are annoyed.
- If the sound causes activity interference (for example, sleep disturbance), it is more likely to annoy.
- If listeners feel they can control the noise source, it less likely to be perceived as annoying.
- If listeners believe that the noise is subject to third party control, including police, but control has failed, they are more annoyed.

Generally, most noise is generated by transportation systems, principally motor vehicle noise, but also including aircraft noise and rail noise. The level of traffic noise depends on three things: l) the volume of the traffic, 2) the speed of the traffic, and 3) the number of trucks in the flow of the traffic. Because noise is measured on a logarithmic scale, 70 dBA plus 70 dBA does not equal 140 dBA. Instead, two sources of equal noise added together have been found to result in an increase of 3 dBA. That is, if a certain volume of traffic results in a noise level of 70 dBA the addition of the same volume of traffic, or doubling, would result in a noise level of 73 dBA. As stated above, 3 dBA is just audible; therefore, if a project doubles the traffic volume there would be an audible increase in the ambient noise level.

Stationary points of noise attenuate (lessen) at a rate of 6 to 9 dBA per doubling of distance from the source, depending on environmental conditions (i.e., atmospheric conditions and noise barriers, vegetative or manufactured, etc.). Widely distributed noises, such as a large industrial facility or a street with moving vehicles would typically attenuate at a lower rate, approximately 4 to 6 dBA per doubling of distance.

Vibration Background and Terminology

Vibration is like noise in that it involves a source, a transmission path, and a receiver. While vibration is related to noise, it differs in that noise is generally considered to be pressure waves transmitted through air, while vibration is usually associated with transmission through the ground or structures. As with noise, vibration consists of an amplitude and frequency. A person's response to vibration will depend on their individual sensitivity as well as the amplitude and frequency of the source.

Vibration can be described in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of velocity in inches per second peak particle velocity (IPS, PPV) or root-mean-square velocity in decibels (VdB, RMS). Standards pertaining to perception as well as damage to structures have been developed for vibration in terms of peak particle velocity as well as RMS velocities. In terms of RMS velocities, vibration levels below approximately 65 VdB are typically considered to be below the threshold of perception.

As vibrations travel outward from the source, they excite the particles of rock and soil through which they pass and cause them to oscillate. Differences in subsurface geologic conditions and distance from the source of vibration will result in different vibration levels characterized by different frequencies and intensities. In all cases, vibration amplitudes will decrease with increasing distance. At high enough amplitudes, ground vibration has the potential to damage structures and/or cause cosmetic damage. Ground vibration can also be a source of annoyance to individuals who live or work close to vibration-generating activities. However, traffic, rarely generates vibration amplitudes high enough to cause structural or cosmetic damage.

HAZARDOUS MATERIALS – SECTION 3.12 OF THE EA

Federal

Resource Conservation and Recovery Act

The Resource Conservation and Recovery Act (RCRA) regulates the land disposal of hazardous materials from cradle-to-grave. This means establishing a regulatory framework for the generation, transport, treatment, storage and disposal of hazardous waste. Specifically, Subtitle D of RCRA pertains to non-hazardous solid waste and Subtitle C focuses on hazardous solid waste. A solid waste can consist of solids, liquids and gases, but these must be discarded in order to be considered waste. Additionally, the USEPA has developed regulations to set minimum national technical standards for how disposal facilities should be designed and operated. States issue permits to ensure compliance with USEPA and state regulations. The regulated community is comprised of a diverse group that must comprehend and adhere to RCRA regulations. These groups can consist of hazardous waste generators, government agencies, small businesses, and gas stations with underground petroleum tanks. As of November 27, 2023, the RCRA regulations have been updated by the USEPA to include the identification of Non-Hazardous Secondary Materials (NHSM) that Are Solid Waste and the 2018 Additions to List of Categorical Non-Waste Fuels.

Food, Drug, and Cosmetic Act

Under the federal Food, Drug, and Cosmetic Act, the USEPA sets maximum residue limits, or tolerances, for pesticides residues on food. When the USEPA sets a tolerance level for a food, this is the level deemed safe. In defining safe, this means that, "reasonable certainty that no harm will result from aggregate exposure to the pesticide residue." When determining a safety finding for a tolerance level, the USEPA considers the toxicity of the pesticide and its break-down products, aggregate exposure to the pesticide in foods and from other sources of exposure if applicable, and any special risks specific to infants and children. If a tolerance is not set for a pesticide residue, a food containing that pesticide residue will be subject to government seizure if deemed appropriate. However, once a tolerance has been established for a pesticide residue, then residue levels below the tolerance will not trigger enforcement actions. If the residue level is detected above that tolerance, then the commodity will be subject to seizure. Some pesticides do not have a set tolerance level as the USEPA may grant exemptions in the cases where the pesticide residue does not pose, under foreseeable situations, a significant dietary risk.

Insecticide, Fungicide, and Rodenticide Act

The federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) addresses the sale, distribution, and labeling of pesticides, as well as the certification and training of pesticide applicators. FIFRA establishes recordkeeping and reporting requirements on certified applicators of restricted use pesticides. Furthermore, FIFRA imposes storage, disposal, and transportation requirements on registrants and applicants for the registration of pesticides. Pesticide use is regulated through requirements to apply pesticides in a manner consistent with the label. The labeling requirement includes directions for use, warnings, and cautions along with the uses for which the pesticide is registered (e.g., pests and appropriate applications). This includes the specific conditions for the application, mixture, and storage of the pesticide. Additionally, the label must specify a time period for re-entry into an area after the pesticide has been applied, and when crops may be harvested after the application of the pesticide. If a pesticide is used in a manner contrary to specifics on its label, then the use constitutes a violation of the FIFRA.

Hazardous Communication Standard

The Occupational Safety and Health Administration helps ensure employee safety by regulating the handling and use of chemicals in the workplace. For instance, it administers the Hazard Communication Standard (HCS). The HCS ensures safety in the workplace concerning chemicals through requiring information to be provided and understood by workers about the identity and hazards associated with chemicals they may work with. This also requires that chemical manufactures and importers evaluate the hazards associated with the chemicals they create or import, and that these chemicals have proper labels and material safety data sheets concerning their hazards to others (e.g., customers). Downstream of the production, employers who utilize these hazardous chemicals in their workplaces are obligated to have labels and safety data sheets for their workers and to train them on the proper handling of these chemicals.

Hazardous Substances Act

The Consumer Product Safety Commission has a limited role in regulating hazardous substances; it primarily deals with the labeling of consumer products through the federal Hazardous Substances Act (HSA). HSA only requires products that may at some point be in the presence of people's dwellings to be labeled, including during purchase, storage, or use. These labels must alert consumers of the potential hazards that the product may pose. However, in order for a product to be required for labelling, the product must be toxic, corrosive, flammable/combustible, an irritant, a strong sensitizer, or have the ability to generate pressure through decomposition, heat, or other means. Furthermore, the product must possess the ability to cause severe personal injury or substantial illness during or as a result of any customary or reasonably predictable handling or use, including reasonably foreseeable ingestion by children.

Toxic Substances Control Act

The federal Toxic Substances Control Act (TSCA), as amended by the Frank R. Lautenberg Chemical Safety for the 21st Century Act, permits the USEPA to evaluate the potential risk from novel and existing chemicals and address unacceptable risks chemicals may have on human health and the environment. The USEPA oversees the production, importation, use, and disposal of certain chemicals. This includes the USEPA having the authority to require record keeping, reporting, and test requirements and restrictions associated with certain chemical substances and/or mixtures. However, certain groups of chemicals are excluded from TSCA consideration, including—but not limited to—food, drugs, cosmetics and pesticides. Examples of chemicals included in TSCA consideration are lead paint, asbestos, mercury, formaldehyde, and polychlorinated biphenyls.

Emergency Planning and Community Right-to-Know Act

The federal Emergency Planning and Community Right-to-Know Act (EPCRA) is designed to assist local communities protect public health, safety, and the environment from chemical hazards. The Community Right-to-Know provisions help increase the public's knowledge and access to information on chemicals at individual facilities, their uses, and releases into the environment. The EPCRA also requires industry to report on the storage, usage, and releases of hazardous substances to federal, state, and local governments, and states and communities can use the information gained to improve chemical safety and protect public health and the environment.

National Fire Protection Association Codes and Standards

The National Fire Protection Association (NFPA) publishes more than 300 consensus codes and standards intended to minimize the possibility and effects of fire and other risks, including, but not limited to (NFPA, 2022):

- NFPA 13 Standard for the Installation of Sprinkler Systems
- NFPA 72 National Fire Alarm and Signaling Code
- NFPA 88A Standard for Parking Structures
- NFPA 1660 Standard for Emergency, Continuity, and Crisis Management: Preparedness, Response, and Recovery
- NFPA 1140 Standard for Wildland Fire Protection

State and Local

California Building Code (CBC)

The CBC includes Fire Code Elements to reduce wildfire impacts including Chapter 7A regarding building materials, systems, and/or assemblies used in the exterior design and construction of new buildings located within a Wildland-Urban Interface Fire Area; as well as CBC Section 703A.7 that incorporates State Fire Marshal standards for exterior wildfire exposure protection.

San Diego County General Plan

The 2011 updated San Diego County General Plan (General Plan) is the long-term blueprint for the vision of the future for the County's unincorporated areas. Policies in the General Plan that are relevant to the off-Reservation hazards and hazardous materials in the vicinity of the Project are from the Safety Element and include the following policies:

Policy S-2.2: Advise, and where appropriate, require all new developments to help eliminate impediments to evacuation within existing community plan areas, where limited ingress/egress conditions could impede evacuation events.

Policy S-2.7: All development proposals are required to identify evacuation routes at the Community Plan level and identify and facilitate the establishment of new routes needed to ensure effective evacuation. Evacuation routes should be incorporated into existing Community Wildfire Protection Plans where available.

Policy S-4.1: Require development to be located, designed, and constructed to provide adequate defensibility and minimize the risk of structural loss and life safety resulting from wildland fires.

Policy S-4.2: Require development located in wildland areas, near ridgelines, top of slopes, saddles, or other areas where the terrain or topography affects its susceptibility to wildfires to be located and designed to account for topography and reduce the increased risk from fires. Density reduction may be necessary to reduce fire hazards if the location and design of the development cannot reduce the threat effectively.

Policy S-4.3: Site and design development to minimize the likelihood of a wildfire spreading to structures by minimizing pockets or peninsulas or islands of flammable vegetation within a development.

Policy S-4.4: Plan for development where fire and emergency services are available or planned.

Policy S-4.5: Require development to provide additional access roads where feasible to provide for safe access of emergency equipment and civilian evacuation concurrently. The width, surface, grade, radius, turnarounds, turnouts, bridge construction, vegetative management and brush clearance around roadways, and lengths of fire apparatus access roads shall meet the requirements of the State and San Diego County Consolidated Fire Codes. All requirements and any deviations will be at the discretion of the Fire Code Official.

Policy S-4.6: Ensure that development located within fire hazard areas implement measures in a Fire Protection Plan that reduce the risk of structural and human loss due to wildfire.

Policy S-4.7: Require all new, remodeled, or rebuilt structures to meet current ignition resistance construction codes and establish and enforce reasonable and prudent standards that support retrofitting of existing structures in high fire hazard areas.

Policy S-7.2: Require development to contribute its fair share towards funding the provision of appropriate fire and emergency medical services as determined necessary to adequately serve the project.

Policy S-7.3: Require that new development demonstrate that adequate fire services can be provided that meet the minimum staffing of personnel and that meet the minimum travel times identified in Table S-3 (Travel Time Standards from Closest Fire Station).

Policy S-7.4: Ensure that fire protection staffing, facilities, and equipment required to serve development are operating prior to, or in conjunction with, the development. Allow incremental growth to occur until a new facility can be supported by development.

VISUAL RESOURCES – SECTION 3.13 OF THE EA

Federal

Wild and Scenic Rivers Act of 1968

The Wild and Scenic Rivers Act of 1968 is a federal law that was established to protect selected rivers in the United States that have outstandingly remarkable scenic, recreational, geologic, fish and wildlife, historic, cultural, or other similar values. The Act preserves the unique character of these rivers while also acknowledging their potential for appropriate use and development. It encourages river management that crosses political boundaries and promotes public participation in developing goals for river protection. The National Wild and Scenic Rivers System was created by the Wild and Scenic Rivers Act. River units designated as part of the system are classified and administered three types based on the condition of the river, the amount of development in the river or on the shorelines, and the degree of accessibility by road or trail at the time of designation:

- Wild River Areas: These rivers or sections of rivers are free of impoundments and generally inaccessible except by trail, with watersheds or shorelines essentially primitive and waters unpolluted. These represent vestiges of primitive America.
- Scenic River Areas: These rivers or sections of rivers are free of impoundments, with shorelines or watersheds still largely primitive and shorelines largely undeveloped, but accessible in places by roads.
- Recreational River Areas: These rivers or sections of rivers are readily accessible by road or railroad, may have some development along their shorelines, and may have undergone some impoundment or diversion in the past.

Typically, rivers are added to the system by an act of Congress, but they may also be added by state nomination with the approval of the Secretary of the Interior. Congress initially designated 789 miles of eight rivers as part of the system. Today there are 208 river units with 12,708.8 miles in 40 states and Puerto Rico, administered by federal agencies or by state, local, or tribal governments. Federal agencies are typically the National Park Service, the Bureau of Land Management, the Forest Service, or the Fish and Wildlife Service.

State and Local

Caltrans State Scenic Highway Program

In 1963, the California State Legislature established the California Scenic Highway Program through Senate Bills 1467 and 1468, provisions of which were added to the Streets and Highways Code. The goal of the California Scenic Highway Program is to preserve and enhance the natural beauty of California, with scenic highways being designated based upon the amount of natural landscape visible to a passing motorist. Scenic highway designation does not preclude nearby development; however, the program encourages development that does not degrade the scenic value of the highway corridor.

Title 24 Outdoor Lighting Zones

The California Energy Commission has published the 2019 Building Energy Efficiency Standards for residential and non-residential buildings (Title 24, part 6). These standards took effect January 1, 2020, and include mandatory requirements for outdoor lighting such as maximum brightness and shielding. These requirements vary based on the Lighting Zone the building is located in. Lighting Zones range from Zone 0 (undeveloped open spaces) to Zone 3 (urban areas). Lighting Zone 4 can only be designated when a local government applies for exceptionally high lighting allowances. Lighting Zones are intended to help limit light pollution and ensure light levels are appropriate for the region.

County of San Diego General Plan Update

The Conservation and Open Space Element (COSE) of the County's General Plan Update contains goals and policies related to landscape/setting, scenic corridors, and astronomical dark skies. The General Plan identifies three distinctive geographic regions, listed from west to east: (1) low-lying coastal plain, (2) mountainous peninsular range, and (3) desert Salton (Imperial) Basin. The General Plan states that the diversity of these regions provides the residents/visitors with an array of natural vistas and scenic environments that provide a unique collection from the ocean to the desert.

The COSE addresses two aspects of scenic highways within the scenic corridor discussion: (1) County designated and (2) State designated. For County designated segments, the General Plan Update states that "A "scenic highway" can pertain to any freeway, highway, road, or other vehicular right-of-way along a corridor with considerable or otherwise scenic landscape." For State Scenic Highways, highways that are officially designated as scenic or eligible for designation are considered "State Scenic Highways" by the County. SR 94 is not designated as a State Designated Scenic Highway. State Route 94 from Interstate 8 to SR 125, inclusive of the segment traveling past the project site, is designated as a County Scenic Highway.

The astronomical dark sky discussion lists two sites within the County that meet five criteria for high-quality observatory locations: (1) Palomar and (2) Mount Laguna Observatories. Palomar Observatory is located at an altitude of 5,500 feet at the top of Palomar Mountain approximately 32.1 miles from the Project Site in northern San Diego County near Palomar Mountain State Park. The Mount Laguna Observatory is located at an altitude of 6,100 feet on the eastern edge of the Cleveland National Forest approximately 16.9 miles from the Project Site near the Anza-Borrego State Park, 45 miles east of downtown San Diego.

The County of San Diego General Plan Update goals and policies include the following:

> **Goal COS-11:** Preservation of scenic resources, including vistas of important natural and unique features, where visual impacts of development are minimized.

Policy COS 11.1: Require the protection of scenic highways, corridors, regionally significant vistas, and natural features, including prominent ridgelines, dominant landforms, reservoirs, and scenic landscapes.

Policy COS 11.2: Promote the connection of regionally significant natural features, designated historic landmarks, and points of regional historic, visual, and cultural interest via designated scenic corridors, such as scenic highways and regional trails.

Policy COS 11.3: Require development within visually sensitive areas to minimize visual impacts and to preserve unique or special visual features, particularly in rural areas, through the following: (a) creative site planning, (b) integration of natural features into the project, (c) appropriate scale, materials, and design to complement the surrounding natural landscape, and (d) minimal disturbance of topography.

Goal COS-13: Preserved dark skies that contribute to rural character and are necessary for the local observatories.

Policy COS 13.1: Restrict outdoor light and glare from development projects in Semi-Rural and Rural Lands and designated rural communities to retain the quality of night skies by minimizing light pollution.

Policy COS 13.2: Minimize, to the maximum extent feasible, the impact of development on the dark skies surrounding Palomar and Mount Laguna observatories to maintain dark skies which are vital to these two world-class observatories by restricting exterior light sources within the impact areas of the observatories.

Policy COS 13.3: Coordinate with adjacent federal and State agencies, local jurisdictions, and tribal governments to retain the quality of night skies by minimizing light pollution.

San Diego County Zoning Code

The purpose of the San Diego County zoning code is to regulate land use and development within the unincorporated areas of San Diego County. The code establishes zoning designations for all properties within the county, reflecting the current designations in the Land Development Code. The code also provides flexibility in the application of development regulations for projects where strict application of the base zone development regulations would restrict design options and result in a less desirable project. The zoning code is used to implement the General Plan and the community plans, which establish the pattern and intensity of land use throughout the County.

The San Diego County Zoning Ordinance has specific regulations for outdoor lighting and landscaping in unincorporated County:

- Lightning: minimize light pollution, protect the environment, and promote energy conservation. The code specifies that outdoor lighting fixtures must be shielded and directed downward to minimize light pollution and glare. The code also requires that outdoor lighting fixtures be designed to minimize the amount of light that spills over onto adjacent properties.
- Landscaping: promote water conservation, protect the environment, and enhance the aesthetic quality of the County. The code specifies that landscaping must be designed to minimize water usage and promote water conservation. The code also requires that landscaping be designed to minimize the amount of water that runs off onto adjacent properties.

Alpine Community Plan

The Draft Alpine Community Plan addresses various aspects of future development and planning for the Alpine community. It reflects the current community's vision for the future and aims to provide new and diverse housing choices. The plan integrates recent County planning efforts with a diversity of community viewpoints and includes input from public workshops and meetings. It also addresses future infrastructure needs, climate change, and the protection of sensitive natural resources and habitats. The plan proposes alternatives for future growth and development in Alpine while considering factors such as land use designations, public safety, schools, and mobility considerations. In addition, it acknowledges the expected population growth in the greater County region with increasing demands on long-range planning, including housing, jobs, education, transportation, services, recreation, sustainability, and natural resource conservation. The plan also emphasizes the need to focus on sustainability, reduce greenhouse gas emissions, and adapt to the effects of climate change.

The Draft Alpine Community Plan includes provisions for aesthetics, emphasizing the importance of integrating natural materials and promoting sustainability in future development. It encourages the use of natural materials in construction and landscaping, aiming to enhance the visual appeal of the community. Additionally, the plan emphasizes the promotion of conservation education in the community and schools, as well as the support for the designation of the community as a dark-sky community. These measures align with the goal of promoting well-planned management of valuable resources and preventing the destruction and wasteful exploitation of natural resources.

San Diego County Dark Sky Ordinance

The San Diego County Dark Sky Ordinance, codified as Section 51.201 of the County Code of Regulatory Ordinances, intends to minimize light pollution to allow citizens of the County to view and enjoy the night environment, allow communities within the unincorporated areas of the County to become recognized by the International Dark-Sky Association as Dark-Sky Communities, and protect the Palomar and Mount Laguna observatories from the detrimental effect that light pollution has on astronomical research.

REFERENCES

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Appendix E

Air Quality Information

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ewiiaapaayp Tribal Community and Fee-to-Trust Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	1.44	1000sqft	0.03	1,440.00	0
Library	1.44	1000sqft	0.03	1,440.00	0
Single Family Housing	2.00	Dwelling Unit	0.65	3,600.00	6
Government (Civic Center)	2.04	1000sqft	0.05	2,044.00	0
Parking Lot	12.96	1000sqft	0.30	12,960.00	0
Other Asphalt Surfaces	61.95	1000sqft	1.42	61,950.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Architectural Coating - Compliance with APCD Rule 67.0.1

Area Coating - Compliance with APCD Rule 67.0.1

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Area Mitigation - Compliance with Rule 67.0.1

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation -

Energy Mitigation -

Woodstoves - No fireplaces

Vehicle Trips - Adjusted for consistency with Local Mobility Analysis (LLG, 2023)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblFireplaces	NumberGas	1.10	0.00
tblFireplaces	NumberNoFireplace	0.20	0.00
tblFireplaces	NumberWood	0.70	0.00
tblLandUse	LandUseSquareFeet	2,040.00	2,044.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	15.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	30.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	ST_TR	80.09	30.56
tblVehicleTrips	SU_TR	42.09	30.56
tblVehicleTrips	WD_TR	33.98	24.94
tblVehicleTrips	WD_TR	22.59	14.39

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	72.05	30.56
tblWoodstoves	NumberPellet	0.00	2.00

2.0 Emissions Summary

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
2024	0.1268	1.0268	1.1229	2.2600e-003	0.0567	0.0422	0.0989	0.0194	0.0402	0.0596	0.0000	193.2521	193.2521	0.0329	2.6000e-003	194.8477
2025	0.1342	0.6554	0.8058	1.6100e-003	0.0257	0.0251	0.0508	6.9200e-003	0.0239	0.0309	0.0000	136.9580	136.9580	0.0217	1.9900e-003	138.0922
Maximum	**0.1342**	**1.0268**	**1.1229**	**2.2600e-003**	**0.0567**	**0.0422**	**0.0989**	**0.0194**	**0.0402**	**0.0596**	**0.0000**	**193.2521**	**193.2521**	**0.0329**	**2.6000e-003**	**194.8477**

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	0.1268	1.0268	1.1229	2.2600e-003	0.0437	0.0422	0.0859	0.0136	0.0402	0.0538	0.0000	193.2519	193.2519	0.0329	2.6000e-003	194.8475
2025	0.1342	0.6554	0.8058	1.6100e-003	0.0257	0.0251	0.0508	6.9200e-003	0.0239	0.0309	0.0000	136.9579	136.9579	0.0217	1.9900e-003	138.0921
Maximum	**0.1342**	**1.0268**	**1.1229**	**2.2600e-003**	**0.0437**	**0.0422**	**0.0859**	**0.0136**	**0.0402**	**0.0538**	**0.0000**	**193.2519**	**193.2519**	**0.0329**	**2.6000e-003**	**194.8475**

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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**	**15.78**	**0.00**	**8.69**	**21.99**	**0.00**	**6.41**	**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	**6-1-2024**	**8-31-2024**	0.4987	0.4987
2	**9-1-2024**	**11-30-2024**	0.4929	0.4929
3	**12-1-2024**	**2-28-2025**	0.4684	0.4684
4	**3-1-2025**	**5-31-2025**	0.4378	0.4378
5	**6-1-2025**	**8-31-2025**	0.0476	0.0476
		Highest	0.4987	0.4987

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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	0.0682	0.0213	0.0936	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Energy	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	25.7886	25.7886	1.2900e-003	2.7000e-004	25.9002
Mobile	0.0521	0.0562	0.4745	9.9000e-004	0.1093	7.7000e-004	0.1100	0.0292	7.2000e-004	0.0299	0.0000	91.7176	91.7176	6.7500e-003	4.2500e-003	93.1541
Stationary	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Waste						0.0000	0.0000		0.0000	0.0000	3.4021	0.0000	3.4021	0.2011	0.0000	8.4286
Water						0.0000	0.0000		0.0000	0.0000	0.2750	4.3325	4.6074	0.0285	7.0000e-004	5.5284
Total	**0.1316**	**0.0848**	**0.5999**	**1.7000e-003**	**0.1093**	**0.0108**	**0.1200**	**0.0292**	**0.0107**	**0.0399**	**8.1241**	**122.4762**	**130.6003**	**0.2627**	**5.2200e-003**	**138.7235**

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	0.0682	0.0213	0.0936	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Energy	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	25.7886	25.7886	1.2900e-003	2.7000e-004	25.9002
Mobile	0.0521	0.0562	0.4745	9.9000e-004	0.1093	7.7000e-004	0.1100	0.0292	7.2000e-004	0.0299	0.0000	91.7176	91.7176	6.7500e-003	4.2500e-003	93.1541
Stationary	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Waste						0.0000	0.0000		0.0000	0.0000	3.4021	0.0000	3.4021	0.2011	0.0000	8.4286
Water						0.0000	0.0000		0.0000	0.0000	0.2200	3.7796	3.9996	0.0228	5.6000e-004	4.7375
Total	**0.1316**	**0.0848**	**0.5999**	**1.7000e-003**	**0.1093**	**0.0108**	**0.1200**	**0.0292**	**0.0107**	**0.0399**	**8.0691**	**121.9234**	**129.9925**	**0.2570**	**5.0800e-003**	**137.9327**

	ROG	NOx	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**	**0.68**	**0.45**	**0.47**	**2.17**	**2.68**	**0.57**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2024	6/28/2024	5	20	
2	Site Preparation	Site Preparation	6/29/2024	7/3/2024	5	3	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	7/4/2024	7/11/2024	5	6	
4	Building Construction	Building Construction	7/12/2024	5/15/2025	5	220	
5	Paving	Paving	5/16/2025	5/29/2025	5	10	
6	Architectural Coating	Architectural Coating	5/30/2025	6/12/2025	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.72

Residential Indoor: 7,290; Residential Outdoor: 2,430; Non-Residential Indoor: 7,386; Non-Residential Outdoor: 2,462; Striped Parking Area: 4,495 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	34.00	13.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0916	21.0916	5.3400e-003	0.0000	21.2250
Total	**0.0144**	**0.1389**	**0.1349**	**2.4000e-004**		**6.3100e-003**	**6.3100e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**21.0916**	**21.0916**	**5.3400e-003**	**0.0000**	**21.2250**

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	4.3000e-004	3.1000e-004	3.9400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2290	1.2290	3.0000e-005	3.0000e-005	1.2385
Total	**4.3000e-004**	**3.1000e-004**	**3.9400e-003**	**1.0000e-005**	**1.6200e-003**	**1.0000e-005**	**1.6300e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2290**	**1.2290**	**3.0000e-005**	**3.0000e-005**	**1.2385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0915	21.0915	5.3400e-003	0.0000	21.2250
Total	**0.0144**	**0.1389**	**0.1349**	**2.4000e-004**		**6.3100e-003**	**6.3100e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**21.0915**	**21.0915**	**5.3400e-003**	**0.0000**	**21.2250**

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	4.3000e-004	3.1000e-004	3.9400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2290	1.2290	3.0000e-005	3.0000e-005	1.2385
Total	**4.3000e-004**	**3.1000e-004**	**3.9400e-003**	**1.0000e-005**	**1.6200e-003**	**1.0000e-005**	**1.6300e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2290**	**1.2290**	**3.0000e-005**	**3.0000e-005**	**1.2385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 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					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0197	0.0144	4.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	3.2300	3.2300	1.0400e-003	0.0000	3.2561
Total	**1.8600e-003**	**0.0197**	**0.0144**	**4.0000e-005**	**2.3900e-003**	**7.5000e-004**	**3.1400e-003**	**2.6000e-004**	**6.9000e-004**	**9.5000e-004**	**0.0000**	**3.2300**	**3.2300**	**1.0400e-003**	**0.0000**	**3.2561**

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-005	3.0000e-005	3.6000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1143
Total	**4.0000e-005**	**3.0000e-005**	**3.6000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1135**	**0.1135**	**0.0000**	**0.0000**	**0.1143**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 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					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0197	0.0144	4.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	3.2300	3.2300	1.0400e-003	0.0000	3.2561
Total	**1.8600e-003**	**0.0197**	**0.0144**	**4.0000e-005**	**1.0700e-003**	**7.5000e-004**	**1.8200e-003**	**1.2000e-004**	**6.9000e-004**	**8.1000e-004**	**0.0000**	**3.2300**	**3.2300**	**1.0400e-003**	**0.0000**	**3.2561**

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-005	3.0000e-005	3.6000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1143
Total	**4.0000e-005**	**3.0000e-005**	**3.6000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1135**	**0.1135**	**0.0000**	**0.0000**	**0.1143**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 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					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
Total	**3.9000e-003**	**0.0415**	**0.0261**	**6.0000e-005**	**0.0213**	**1.7200e-003**	**0.0230**	**0.0103**	**1.5800e-003**	**0.0119**	**0.0000**	**5.4311**	**5.4311**	**1.7600e-003**	**0.0000**	**5.4750**

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-004	7.0000e-005	9.1000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2836	0.2836	1.0000e-005	1.0000e-005	0.2858
Total	**1.0000e-004**	**7.0000e-005**	**9.1000e-004**	**0.0000**	**3.7000e-004**	**0.0000**	**3.8000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2836**	**0.2836**	**1.0000e-005**	**1.0000e-005**	**0.2858**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 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					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	4.6200e-003	0.0000	4.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
Total	**3.9000e-003**	**0.0415**	**0.0261**	**6.0000e-005**	**9.5600e-003**	**1.7200e-003**	**0.0113**	**4.6200e-003**	**1.5800e-003**	**6.2000e-003**	**0.0000**	**5.4311**	**5.4311**	**1.7600e-003**	**0.0000**	**5.4750**

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-004	7.0000e-005	9.1000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2836	0.2836	1.0000e-005	1.0000e-005	0.2858
Total	**1.0000e-004**	**7.0000e-005**	**9.1000e-004**	**0.0000**	**3.7000e-004**	**0.0000**	**3.8000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2836**	**0.2836**	**1.0000e-005**	**1.0000e-005**	**0.2858**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0982	0.7886	0.8672	1.5400e-003		0.0331	0.0331		0.0317	0.0317	0.0000	127.7441	127.7441	0.0238	0.0000	128.3389
Total	**0.0982**	**0.7886**	**0.8672**	**1.5400e-003**		**0.0331**	**0.0331**		**0.0317**	**0.0317**	**0.0000**	**127.7441**	**127.7441**	**0.0238**	**0.0000**	**128.3389**

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	8.6000e-004	0.0328	0.0118	1.5000e-004	4.8000e-003	1.9000e-004	4.9900e-003	1.3900e-003	1.8000e-004	1.5700e-003	0.0000	14.3614	14.3614	4.5000e-004	2.0800e-003	14.9932
Worker	6.9900e-003	4.9400e-003	0.0635	2.2000e-004	0.0261	1.3000e-004	0.0262	6.9300e-003	1.2000e-004	7.0500e-003	0.0000	19.7680	19.7680	4.3000e-004	4.8000e-004	19.9208
Total	**7.8500e-003**	**0.0377**	**0.0752**	**3.7000e-004**	**0.0309**	**3.2000e-004**	**0.0312**	**8.3200e-003**	**3.0000e-004**	**8.6200e-003**	**0.0000**	**34.1294**	**34.1294**	**8.8000e-004**	**2.5600e-003**	**34.9141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 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	0.0982	0.7886	0.8672	1.5400e-003		0.0331	0.0331		0.0317	0.0317	0.0000	127.7439	127.7439	0.0238	0.0000	128.3387
Total	**0.0982**	**0.7886**	**0.8672**	**1.5400e-003**		**0.0331**	**0.0331**		**0.0317**	**0.0317**	**0.0000**	**127.7439**	**127.7439**	**0.0238**	**0.0000**	**128.3387**

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	8.6000e-004	0.0328	0.0118	1.5000e-004	4.8000e-003	1.9000e-004	4.9900e-003	1.3900e-003	1.8000e-004	1.5700e-003	0.0000	14.3614	14.3614	4.5000e-004	2.0800e-003	14.9932
Worker	6.9900e-003	4.9400e-003	0.0635	2.2000e-004	0.0261	1.3000e-004	0.0262	6.9300e-003	1.2000e-004	7.0500e-003	0.0000	19.7680	19.7680	4.3000e-004	4.8000e-004	19.9208
Total	**7.8500e-003**	**0.0377**	**0.0752**	**3.7000e-004**	**0.0309**	**3.2000e-004**	**0.0312**	**8.3200e-003**	**3.0000e-004**	**8.6200e-003**	**0.0000**	**34.1294**	**34.1294**	**8.8000e-004**	**2.5600e-003**	**34.9141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0723	0.5831	0.6794	1.2100e-003		0.0228	0.0228		0.0218	0.0218	0.0000	100.7516	100.7516	0.0185	0.0000	101.2136
Total	**0.0723**	**0.5831**	**0.6794**	**1.2100e-003**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**100.7516**	**100.7516**	**0.0185**	**0.0000**	**101.2136**

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	6.6000e-004	0.0256	9.1200e-003	1.1000e-004	3.7900e-003	1.5000e-004	3.9400e-003	1.0900e-003	1.4000e-004	1.2400e-003	0.0000	11.1097	11.1097	3.7000e-004	1.6100e-003	11.5987
Worker	5.2000e-003	3.5100e-003	0.0468	1.6000e-004	0.0206	1.0000e-004	0.0207	5.4600e-003	9.0000e-005	5.5500e-003	0.0000	15.0590	15.0590	3.1000e-004	3.5000e-004	15.1717
Total	**5.8600e-003**	**0.0291**	**0.0559**	**2.7000e-004**	**0.0244**	**2.5000e-004**	**0.0246**	**6.5500e-003**	**2.3000e-004**	**6.7900e-003**	**0.0000**	**26.1687**	**26.1687**	**6.8000e-004**	**1.9600e-003**	**26.7703**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 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	0.0723	0.5831	0.6794	1.2100e-003		0.0228	0.0228		0.0218	0.0218	0.0000	100.7515	100.7515	0.0185	0.0000	101.2134
Total	**0.0723**	**0.5831**	**0.6794**	**1.2100e-003**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**100.7515**	**100.7515**	**0.0185**	**0.0000**	**101.2134**

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	6.6000e-004	0.0256	9.1200e-003	1.1000e-004	3.7900e-003	1.5000e-004	3.9400e-003	1.0900e-003	1.4000e-004	1.2400e-003	0.0000	11.1097	11.1097	3.7000e-004	1.6100e-003	11.5987
Worker	5.2000e-003	3.5100e-003	0.0468	1.6000e-004	0.0206	1.0000e-004	0.0207	5.4600e-003	9.0000e-005	5.5500e-003	0.0000	15.0590	15.0590	3.1000e-004	3.5000e-004	15.1717
Total	**5.8600e-003**	**0.0291**	**0.0559**	**2.7000e-004**	**0.0244**	**2.5000e-004**	**0.0246**	**6.5500e-003**	**2.3000e-004**	**6.7900e-003**	**0.0000**	**26.1687**	**26.1687**	**6.8000e-004**	**1.9600e-003**	**26.7703**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	3.9300e-003	0.0372	0.0584	9.0000e-005		1.7500e-003	1.7500e-003		1.6200e-003	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1800e-003**	**0.0372**	**0.0584**	**9.0000e-005**		**1.7500e-003**	**1.7500e-003**		**1.6200e-003**	**1.6200e-003**	**0.0000**	**7.7565**	**7.7565**	**2.4600e-003**	**0.0000**	**7.8179**

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	2.4000e-004	1.6000e-004	2.1300e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6849	0.6849	1.0000e-005	2.0000e-005	0.6900
Total	**2.4000e-004**	**1.6000e-004**	**2.1300e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.6849**	**0.6849**	**1.0000e-005**	**2.0000e-005**	**0.6900**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	3.9300e-003	0.0372	0.0584	9.0000e-005		1.7500e-003	1.7500e-003		1.6200e-003	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1800e-003**	**0.0372**	**0.0584**	**9.0000e-005**		**1.7500e-003**	**1.7500e-003**		**1.6200e-003**	**1.6200e-003**	**0.0000**	**7.7565**	**7.7565**	**2.4600e-003**	**0.0000**	**7.8179**

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	2.4000e-004	1.6000e-004	2.1300e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6849	0.6849	1.0000e-005	2.0000e-005	0.6900
Total	**2.4000e-004**	**1.6000e-004**	**2.1300e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.6849**	**0.6849**	**1.0000e-005**	**2.0000e-005**	**0.6900**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 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	0.0487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.7300e-003	9.0500e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.0496**	**5.7300e-003**	**9.0500e-003**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	1.1000e-004	7.0000e-005	9.9000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3196	0.3196	1.0000e-005	1.0000e-005	0.3220
Total	**1.1000e-004**	**7.0000e-005**	**9.9000e-004**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3196**	**0.3196**	**1.0000e-005**	**1.0000e-005**	**0.3220**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 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	0.0487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.7300e-003	9.0500e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.0496**	**5.7300e-003**	**9.0500e-003**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	1.1000e-004	7.0000e-005	9.9000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3196	0.3196	1.0000e-005	1.0000e-005	0.3220
Total	**1.1000e-004**	**7.0000e-005**	**9.9000e-004**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3196**	**0.3196**	**1.0000e-005**	**1.0000e-005**	**0.3220**

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	0.0521	0.0562	0.4745	9.9000e-004	0.1093	7.7000e-004	0.1100	0.0292	7.2000e-004	0.0299	0.0000	91.7176	91.7176	6.7500e-003	4.2500e-003	93.1541
Unmitigated	0.0521	0.0562	0.4745	9.9000e-004	0.1093	7.7000e-004	0.1100	0.0292	7.2000e-004	0.0299	0.0000	91.7176	91.7176	6.7500e-003	4.2500e-003	93.1541

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	50.88	0.00	0.00	98,297	98,297
Government Office Building	20.72	0.00	0.00	29,312	29,312
Library	44.01	44.01	44.01	95,447	95,447
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	18.88	19.08	17.10	69,033	69,033
Total	134.49	63.09	61.11	292,089	292,089

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
Government (Civic Center)	14.70	6.60	6.60	75.00	20.00	5.00	50	34	16

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
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
Library	14.70	6.60	6.60	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Government Office Building	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Library	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Other Asphalt Surfaces	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Single Family Housing	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8760	18.8760	1.1500e-003	1.4000e-004	18.9466
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8760	18.8760	1.1500e-003	1.4000e-004	18.9466
NaturalGas Mitigated	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9126	6.9126	1.3000e-004	1.3000e-004	6.9536
NaturalGas Unmitigated	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9126	6.9126	1.3000e-004	1.3000e-004	6.9536

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
Government (Civic Center)	40941.3	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1848	2.1848	4.0000e-005	4.0000e-005	2.1978
Government Office Building	28843.2	1.6000e-004	1.4100e-003	1.1900e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5392	1.5392	3.0000e-005	3.0000e-005	1.5483
Library	16588.8	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8852	0.8852	2.0000e-005	2.0000e-005	0.8905
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
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
Single Family Housing	43162.9	2.3000e-004	1.9900e-003	8.5000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3033	2.3033	4.0000e-005	4.0000e-005	2.3170
Total		**7.0000e-004**	**6.2200e-003**	**4.4100e-003**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**6.9125**	**6.9125**	**1.3000e-004**	**1.3000e-004**	**6.9536**

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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					
Government (Civic Center)	40941.3	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1848	2.1848	4.0000e-005	4.0000e-005	2.1978
Government Office Building	28843.2	1.6000e-004	1.4100e-003	1.1900e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5392	1.5392	3.0000e-005	3.0000e-005	1.5483
Library	16588.8	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8852	0.8852	2.0000e-005	2.0000e-005	0.8905
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
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
Single Family Housing	43162.9	2.3000e-004	1.9900e-003	8.5000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3033	2.3033	4.0000e-005	4.0000e-005	2.3170
Total		**7.0000e-004**	**6.2200e-003**	**4.4100e-003**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**6.9125**	**6.9125**	**1.3000e-004**	**1.3000e-004**	**6.9536**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	26449.4	6.4783	4.0000e-004	5.0000e-005	6.5025
Government Office Building	18633.6	4.5639	2.8000e-004	3.0000e-005	4.5810
Library	11779.2	2.8851	1.8000e-004	2.0000e-005	2.8959
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4536	1.1110	7.0000e-005	1.0000e-005	1.1152
Single Family Housing	15668.7	3.8377	2.3000e-004	3.0000e-005	3.8521
Total		**18.8760**	**1.1600e-003**	**1.4000e-004**	**18.9466**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	26449.4	6.4783	4.0000e-004	5.0000e-005	6.5025
Government Office Building	18633.6	4.5639	2.8000e-004	3.0000e-005	4.5810
Library	11779.2	2.8851	1.8000e-004	2.0000e-005	2.8959
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4536	1.1110	7.0000e-005	1.0000e-005	1.1152
Single Family Housing	15668.7	3.8377	2.3000e-004	3.0000e-005	3.8521
Total		**18.8760**	**1.1600e-003**	**1.4000e-004**	**18.9466**

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	0.0682	0.0213	0.0936	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Unmitigated	0.0682	0.0213	0.0936	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684

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	4.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0247	0.0211	0.0780	6.6000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003	4.4470	0.0000	4.4470	0.0238	0.0000	5.0420
Landscaping	5.1000e-004	1.8000e-004	0.0156	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.0682**	**0.0213**	**0.0936**	**6.6000e-004**		**9.4400e-003**	**9.4400e-003**		**9.4400e-003**	**9.4400e-003**	**4.4470**	**0.0257**	**4.4727**	**0.0238**	**0.0000**	**5.0684**

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	4.8700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0247	0.0211	0.0780	6.6000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003	4.4470	0.0000	4.4470	0.0238	0.0000	5.0420
Landscaping	5.1000e-004	1.8000e-004	0.0156	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.0682**	**0.0213**	**0.0936**	**6.6000e-004**		**9.4400e-003**	**9.4400e-003**		**9.4400e-003**	**9.4400e-003**	**4.4470**	**0.0257**	**4.4727**	**0.0238**	**0.0000**	**5.0684**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.9996	0.0228	5.6000e-004	4.7375
Unmitigated	4.6074	0.0285	7.0000e-004	5.5284

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	MT/yr			
Government (Civic Center)	0.405266 / 0.248389	2.0970	0.0133	3.3000e-004	2.5274
Government Office Building	0.28607 / 0.175333	1.4802	9.4100e-003	2.3000e-004	1.7840
Library	0.045056 / 0.0704723	0.3498	1.4900e-003	4.0000e-005	0.3980
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.130308 / 0.0821507	0.6805	4.2900e-003	1.0000e-004	0.8189
Total		**4.6074**	**0.0285**	**7.0000e-004**	**5.5284**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	0.324213 / 0.248389	1.8128	0.0107	2.6000e-004	2.1576
Government Office Building	0.228856 / 0.175333	1.2796	7.5300e-003	1.9000e-004	1.5230
Library	0.0360448 / 0.0704723	0.3182	1.1900e-003	3.0000e-005	0.3569
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.104246 / 0.0821507	0.5891	3.4300e-003	8.0000e-005	0.7000
Total		**3.9996**	**0.0228**	**5.6000e-004**	**4.7375**

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	3.4021	0.2011	0.0000	8.4286
Unmitigated	3.4021	0.2011	0.0000	8.4286

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	MT/yr			
Government (Civic Center)	11.63	2.3608	0.1395	0.0000	5.8487
Government Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Library	1.33	0.2700	0.0160	0.0000	0.6689
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**3.4021**	**0.2011**	**0.0000**	**8.4286**

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			
Government (Civic Center)	11.63	2.3608	0.1395	0.0000	5.8487
Government Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Library	1.33	0.2700	0.0160	0.0000	0.6689
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**3.4021**	**0.2011**	**0.0000**	**8.4286**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	20	15	0.73	CNG
Emergency Generator	3	0	20	30	0.73	CNG

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Boilers

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

User Defined Equipment

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - CNG (0 - 500 HP)	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Total	**0.0106**	**1.0200e-003**	**0.0275**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.6119**	**0.6119**	**1.2800e-003**	**0.0000**	**0.6439**

11.0 Vegetation

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
Government Office Building	1.44	1000sqft	0.03	1,440.00	0
Library	1.44	1000sqft	0.03	1,440.00	0
Single Family Housing	2.00	Dwelling Unit	0.65	3,600.00	6
Government (Civic Center)	2.04	1000sqft	0.05	2,044.00	0
Parking Lot	12.96	1000sqft	0.30	12,960.00	0
Other Asphalt Surfaces	61.95	1000sqft	1.42	61,950.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2040
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Architectural Coating - Compliance with APCD Rule 67.0.1

Area Coating - Compliance with APCD Rule 67.0.1

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Area Mitigation - Compliance with Rule 67.0.1

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation -

Energy Mitigation -

Woodstoves - No fireplaces

Vehicle Trips - Adjusted for consistency with Local Mobility Analysis (LLG, 2023)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	5
tblFireplaces	NumberGas	1.10	0.00
tblFireplaces	NumberNoFireplace	0.20	0.00
tblFireplaces	NumberWood	0.70	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	15.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	30.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	ST_TR	80.09	30.56
tblVehicleTrips	SU_TR	42.09	30.56
tblVehicleTrips	WD_TR	33.98	24.94
tblVehicleTrips	WD_TR	22.59	14.39
tblVehicleTrips	WD_TR	72.05	30.56

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWoodstoves	NumberPellet	0.00	2.00

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					
2024	0.1268	1.0268	1.1229	2.2600e-003	0.0567	0.0422	0.0989	0.0194	0.0402	0.0596	0.0000	193.2521	193.2521	0.0329	2.6000e-003	194.8477
2025	0.1342	0.6554	0.8058	1.6100e-003	0.0257	0.0251	0.0508	6.9200e-003	0.0239	0.0309	0.0000	136.9580	136.9580	0.0217	1.9900e-003	138.0922
Maximum	**0.1342**	**1.0268**	**1.1229**	**2.2600e-003**	**0.0567**	**0.0422**	**0.0989**	**0.0194**	**0.0402**	**0.0596**	**0.0000**	**193.2521**	**193.2521**	**0.0329**	**2.6000e-003**	**194.8477**

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	0.1268	1.0268	1.1229	2.2600e-003	0.0437	0.0422	0.0859	0.0136	0.0402	0.0538	0.0000	193.2519	193.2519	0.0329	2.6000e-003	194.8475
2025	0.1342	0.6554	0.8058	1.6100e-003	0.0257	0.0251	0.0508	6.9200e-003	0.0239	0.0309	0.0000	136.9579	136.9579	0.0217	1.9900e-003	138.0921
Maximum	**0.1342**	**1.0268**	**1.1229**	**2.2600e-003**	**0.0437**	**0.0422**	**0.0859**	**0.0136**	**0.0402**	**0.0538**	**0.0000**	**193.2519**	**193.2519**	**0.0329**	**2.6000e-003**	**194.8475**

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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**	**15.78**	**0.00**	**8.69**	**21.99**	**0.00**	**6.41**	**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	**6-1-2024**	**8-31-2024**	0.4987	0.4987
2	**9-1-2024**	**11-30-2024**	0.4929	0.4929
3	**12-1-2024**	**2-28-2025**	0.4684	0.4684
4	**3-1-2025**	**5-31-2025**	0.4378	0.4378
5	**6-1-2025**	**8-31-2025**	0.0476	0.0476
		Highest	0.4987	0.4987

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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

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	0.0674	0.0213	0.0935	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Energy	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	25.7886	25.7886	1.2900e-003	2.7000e-004	25.9002
Mobile	0.0361	0.0361	0.3591	7.7000e-004	0.1093	4.0000e-004	0.1097	0.0292	3.7000e-004	0.0295	0.0000	71.0554	71.0554	5.2000e-003	3.3500e-003	72.1837
Stationary	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Waste						0.0000	0.0000		0.0000	0.0000	3.4021	0.0000	3.4021	0.2011	0.0000	8.4286
Water						0.0000	0.0000		0.0000	0.0000	0.2750	4.3325	4.6074	0.0285	7.0000e-004	5.5284
Total	**0.1148**	**0.0646**	**0.4845**	**1.4800e-003**	**0.1093**	**0.0104**	**0.1197**	**0.0292**	**0.0104**	**0.0395**	**8.1241**	**101.8140**	**109.9381**	**0.2612**	**4.3200e-003**	**117.7532**

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	0.0674	0.0213	0.0935	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Energy	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	25.7886	25.7886	1.2900e-003	2.7000e-004	25.9002
Mobile	0.0361	0.0361	0.3591	7.7000e-004	0.1093	4.0000e-004	0.1097	0.0292	3.7000e-004	0.0295	0.0000	71.0554	71.0554	5.2000e-003	3.3500e-003	72.1837
Stationary	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Waste						0.0000	0.0000		0.0000	0.0000	3.4021	0.0000	3.4021	0.2011	0.0000	8.4286
Water						0.0000	0.0000		0.0000	0.0000	0.2200	3.7796	3.9996	0.0228	5.6000e-004	4.7375
Total	**0.1148**	**0.0646**	**0.4845**	**1.4800e-003**	**0.1093**	**0.0104**	**0.1197**	**0.0292**	**0.0104**	**0.0395**	**8.0691**	**101.2612**	**109.3303**	**0.2555**	**4.1800e-003**	**116.9624**

	ROG	NOx	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**	**0.68**	**0.54**	**0.55**	**2.18**	**3.24**	**0.67**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2024	6/28/2024	5	20	
2	Site Preparation	Site Preparation	6/29/2024	7/3/2024	5	3	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3	Grading	Grading	7/4/2024	7/11/2024	5	6	
4	Building Construction	Building Construction	7/12/2024	5/15/2025	5	220	
5	Paving	Paving	5/16/2025	5/29/2025	5	10	
6	Architectural Coating	Architectural Coating	5/30/2025	6/12/2025	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.72

Residential Indoor: 7,290; Residential Outdoor: 2,430; Non-Residential Indoor: 7,386; Non-Residential Outdoor: 2,462; Striped Parking Area: 4,495 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	34.00	13.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0916	21.0916	5.3400e-003	0.0000	21.2250
Total	**0.0144**	**0.1389**	**0.1349**	**2.4000e-004**		**6.3100e-003**	**6.3100e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**21.0916**	**21.0916**	**5.3400e-003**	**0.0000**	**21.2250**

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	4.3000e-004	3.1000e-004	3.9400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2290	1.2290	3.0000e-005	3.0000e-005	1.2385
Total	**4.3000e-004**	**3.1000e-004**	**3.9400e-003**	**1.0000e-005**	**1.6200e-003**	**1.0000e-005**	**1.6300e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2290**	**1.2290**	**3.0000e-005**	**3.0000e-005**	**1.2385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 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	0.0144	0.1389	0.1349	2.4000e-004		6.3100e-003	6.3100e-003		5.8900e-003	5.8900e-003	0.0000	21.0915	21.0915	5.3400e-003	0.0000	21.2250
Total	**0.0144**	**0.1389**	**0.1349**	**2.4000e-004**		**6.3100e-003**	**6.3100e-003**		**5.8900e-003**	**5.8900e-003**	**0.0000**	**21.0915**	**21.0915**	**5.3400e-003**	**0.0000**	**21.2250**

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	4.3000e-004	3.1000e-004	3.9400e-003	1.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.2290	1.2290	3.0000e-005	3.0000e-005	1.2385
Total	**4.3000e-004**	**3.1000e-004**	**3.9400e-003**	**1.0000e-005**	**1.6200e-003**	**1.0000e-005**	**1.6300e-003**	**4.3000e-004**	**1.0000e-005**	**4.4000e-004**	**0.0000**	**1.2290**	**1.2290**	**3.0000e-005**	**3.0000e-005**	**1.2385**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 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					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0197	0.0144	4.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	3.2300	3.2300	1.0400e-003	0.0000	3.2561
Total	**1.8600e-003**	**0.0197**	**0.0144**	**4.0000e-005**	**2.3900e-003**	**7.5000e-004**	**3.1400e-003**	**2.6000e-004**	**6.9000e-004**	**9.5000e-004**	**0.0000**	**3.2300**	**3.2300**	**1.0400e-003**	**0.0000**	**3.2561**

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-005	3.0000e-005	3.6000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1143
Total	**4.0000e-005**	**3.0000e-005**	**3.6000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1135**	**0.1135**	**0.0000**	**0.0000**	**0.1143**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 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					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0197	0.0144	4.0000e-005		7.5000e-004	7.5000e-004		6.9000e-004	6.9000e-004	0.0000	3.2300	3.2300	1.0400e-003	0.0000	3.2561
Total	**1.8600e-003**	**0.0197**	**0.0144**	**4.0000e-005**	**1.0700e-003**	**7.5000e-004**	**1.8200e-003**	**1.2000e-004**	**6.9000e-004**	**8.1000e-004**	**0.0000**	**3.2300**	**3.2300**	**1.0400e-003**	**0.0000**	**3.2561**

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-005	3.0000e-005	3.6000e-004	0.0000	1.5000e-004	0.0000	1.5000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1135	0.1135	0.0000	0.0000	0.1143
Total	**4.0000e-005**	**3.0000e-005**	**3.6000e-004**	**0.0000**	**1.5000e-004**	**0.0000**	**1.5000e-004**	**4.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1135**	**0.1135**	**0.0000**	**0.0000**	**0.1143**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 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					
Fugitive Dust					0.0213	0.0000	0.0213	0.0103	0.0000	0.0103	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
Total	**3.9000e-003**	**0.0415**	**0.0261**	**6.0000e-005**	**0.0213**	**1.7200e-003**	**0.0230**	**0.0103**	**1.5800e-003**	**0.0119**	**0.0000**	**5.4311**	**5.4311**	**1.7600e-003**	**0.0000**	**5.4750**

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-004	7.0000e-005	9.1000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2836	0.2836	1.0000e-005	1.0000e-005	0.2858
Total	**1.0000e-004**	**7.0000e-005**	**9.1000e-004**	**0.0000**	**3.7000e-004**	**0.0000**	**3.8000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2836**	**0.2836**	**1.0000e-005**	**1.0000e-005**	**0.2858**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 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					
Fugitive Dust					9.5600e-003	0.0000	9.5600e-003	4.6200e-003	0.0000	4.6200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.9000e-003	0.0415	0.0261	6.0000e-005		1.7200e-003	1.7200e-003		1.5800e-003	1.5800e-003	0.0000	5.4311	5.4311	1.7600e-003	0.0000	5.4750
Total	**3.9000e-003**	**0.0415**	**0.0261**	**6.0000e-005**	**9.5600e-003**	**1.7200e-003**	**0.0113**	**4.6200e-003**	**1.5800e-003**	**6.2000e-003**	**0.0000**	**5.4311**	**5.4311**	**1.7600e-003**	**0.0000**	**5.4750**

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-004	7.0000e-005	9.1000e-004	0.0000	3.7000e-004	0.0000	3.8000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2836	0.2836	1.0000e-005	1.0000e-005	0.2858
Total	**1.0000e-004**	**7.0000e-005**	**9.1000e-004**	**0.0000**	**3.7000e-004**	**0.0000**	**3.8000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.2836**	**0.2836**	**1.0000e-005**	**1.0000e-005**	**0.2858**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0982	0.7886	0.8672	1.5400e-003		0.0331	0.0331		0.0317	0.0317	0.0000	127.7441	127.7441	0.0238	0.0000	128.3389
Total	**0.0982**	**0.7886**	**0.8672**	**1.5400e-003**		**0.0331**	**0.0331**		**0.0317**	**0.0317**	**0.0000**	**127.7441**	**127.7441**	**0.0238**	**0.0000**	**128.3389**

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	8.6000e-004	0.0328	0.0118	1.5000e-004	4.8000e-003	1.9000e-004	4.9900e-003	1.3900e-003	1.8000e-004	1.5700e-003	0.0000	14.3614	14.3614	4.5000e-004	2.0800e-003	14.9932
Worker	6.9900e-003	4.9400e-003	0.0635	2.2000e-004	0.0261	1.3000e-004	0.0262	6.9300e-003	1.2000e-004	7.0500e-003	0.0000	19.7680	19.7680	4.3000e-004	4.8000e-004	19.9208
Total	**7.8500e-003**	**0.0377**	**0.0752**	**3.7000e-004**	**0.0309**	**3.2000e-004**	**0.0312**	**8.3200e-003**	**3.0000e-004**	**8.6200e-003**	**0.0000**	**34.1294**	**34.1294**	**8.8000e-004**	**2.5600e-003**	**34.9141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 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	0.0982	0.7886	0.8672	1.5400e-003		0.0331	0.0331		0.0317	0.0317	0.0000	127.7439	127.7439	0.0238	0.0000	128.3387
Total	**0.0982**	**0.7886**	**0.8672**	**1.5400e-003**		**0.0331**	**0.0331**		**0.0317**	**0.0317**	**0.0000**	**127.7439**	**127.7439**	**0.0238**	**0.0000**	**128.3387**

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	8.6000e-004	0.0328	0.0118	1.5000e-004	4.8000e-003	1.9000e-004	4.9900e-003	1.3900e-003	1.8000e-004	1.5700e-003	0.0000	14.3614	14.3614	4.5000e-004	2.0800e-003	14.9932
Worker	6.9900e-003	4.9400e-003	0.0635	2.2000e-004	0.0261	1.3000e-004	0.0262	6.9300e-003	1.2000e-004	7.0500e-003	0.0000	19.7680	19.7680	4.3000e-004	4.8000e-004	19.9208
Total	**7.8500e-003**	**0.0377**	**0.0752**	**3.7000e-004**	**0.0309**	**3.2000e-004**	**0.0312**	**8.3200e-003**	**3.0000e-004**	**8.6200e-003**	**0.0000**	**34.1294**	**34.1294**	**8.8000e-004**	**2.5600e-003**	**34.9141**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0723	0.5831	0.6794	1.2100e-003		0.0228	0.0228		0.0218	0.0218	0.0000	100.7516	100.7516	0.0185	0.0000	101.2136
Total	**0.0723**	**0.5831**	**0.6794**	**1.2100e-003**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**100.7516**	**100.7516**	**0.0185**	**0.0000**	**101.2136**

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	6.6000e-004	0.0256	9.1200e-003	1.1000e-004	3.7900e-003	1.5000e-004	3.9400e-003	1.0900e-003	1.4000e-004	1.2400e-003	0.0000	11.1097	11.1097	3.7000e-004	1.6100e-003	11.5987
Worker	5.2000e-003	3.5100e-003	0.0468	1.6000e-004	0.0206	1.0000e-004	0.0207	5.4600e-003	9.0000e-005	5.5500e-003	0.0000	15.0590	15.0590	3.1000e-004	3.5000e-004	15.1717
Total	**5.8600e-003**	**0.0291**	**0.0559**	**2.7000e-004**	**0.0244**	**2.5000e-004**	**0.0246**	**6.5500e-003**	**2.3000e-004**	**6.7900e-003**	**0.0000**	**26.1687**	**26.1687**	**6.8000e-004**	**1.9600e-003**	**26.7703**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 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	0.0723	0.5831	0.6794	1.2100e-003		0.0228	0.0228		0.0218	0.0218	0.0000	100.7515	100.7515	0.0185	0.0000	101.2134
Total	**0.0723**	**0.5831**	**0.6794**	**1.2100e-003**		**0.0228**	**0.0228**		**0.0218**	**0.0218**	**0.0000**	**100.7515**	**100.7515**	**0.0185**	**0.0000**	**101.2134**

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	6.6000e-004	0.0256	9.1200e-003	1.1000e-004	3.7900e-003	1.5000e-004	3.9400e-003	1.0900e-003	1.4000e-004	1.2400e-003	0.0000	11.1097	11.1097	3.7000e-004	1.6100e-003	11.5987
Worker	5.2000e-003	3.5100e-003	0.0468	1.6000e-004	0.0206	1.0000e-004	0.0207	5.4600e-003	9.0000e-005	5.5500e-003	0.0000	15.0590	15.0590	3.1000e-004	3.5000e-004	15.1717
Total	**5.8600e-003**	**0.0291**	**0.0559**	**2.7000e-004**	**0.0244**	**2.5000e-004**	**0.0246**	**6.5500e-003**	**2.3000e-004**	**6.7900e-003**	**0.0000**	**26.1687**	**26.1687**	**6.8000e-004**	**1.9600e-003**	**26.7703**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	3.9300e-003	0.0372	0.0584	9.0000e-005		1.7500e-003	1.7500e-003		1.6200e-003	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1800e-003**	**0.0372**	**0.0584**	**9.0000e-005**		**1.7500e-003**	**1.7500e-003**		**1.6200e-003**	**1.6200e-003**	**0.0000**	**7.7565**	**7.7565**	**2.4600e-003**	**0.0000**	**7.8179**

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	2.4000e-004	1.6000e-004	2.1300e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6849	0.6849	1.0000e-005	2.0000e-005	0.6900
Total	**2.4000e-004**	**1.6000e-004**	**2.1300e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.6849**	**0.6849**	**1.0000e-005**	**2.0000e-005**	**0.6900**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	3.9300e-003	0.0372	0.0584	9.0000e-005		1.7500e-003	1.7500e-003		1.6200e-003	1.6200e-003	0.0000	7.7565	7.7565	2.4600e-003	0.0000	7.8179
Paving	2.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.1800e-003**	**0.0372**	**0.0584**	**9.0000e-005**		**1.7500e-003**	**1.7500e-003**		**1.6200e-003**	**1.6200e-003**	**0.0000**	**7.7565**	**7.7565**	**2.4600e-003**	**0.0000**	**7.8179**

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	2.4000e-004	1.6000e-004	2.1300e-003	1.0000e-005	9.4000e-004	0.0000	9.4000e-004	2.5000e-004	0.0000	2.5000e-004	0.0000	0.6849	0.6849	1.0000e-005	2.0000e-005	0.6900
Total	**2.4000e-004**	**1.6000e-004**	**2.1300e-003**	**1.0000e-005**	**9.4000e-004**	**0.0000**	**9.4000e-004**	**2.5000e-004**	**0.0000**	**2.5000e-004**	**0.0000**	**0.6849**	**0.6849**	**1.0000e-005**	**2.0000e-005**	**0.6900**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 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	0.0487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.7300e-003	9.0500e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.0496**	**5.7300e-003**	**9.0500e-003**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	1.1000e-004	7.0000e-005	9.9000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3196	0.3196	1.0000e-005	1.0000e-005	0.3220
Total	**1.1000e-004**	**7.0000e-005**	**9.9000e-004**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3196**	**0.3196**	**1.0000e-005**	**1.0000e-005**	**0.3220**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.7 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	0.0487					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.7300e-003	9.0500e-003	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004	0.0000	1.2766	1.2766	7.0000e-005	0.0000	1.2784
Total	**0.0496**	**5.7300e-003**	**9.0500e-003**	**1.0000e-005**		**2.6000e-004**	**2.6000e-004**		**2.6000e-004**	**2.6000e-004**	**0.0000**	**1.2766**	**1.2766**	**7.0000e-005**	**0.0000**	**1.2784**

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	1.1000e-004	7.0000e-005	9.9000e-004	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3196	0.3196	1.0000e-005	1.0000e-005	0.3220
Total	**1.1000e-004**	**7.0000e-005**	**9.9000e-004**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3196**	**0.3196**	**1.0000e-005**	**1.0000e-005**	**0.3220**

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	0.0361	0.0361	0.3591	7.7000e-004	0.1093	4.0000e-004	0.1097	0.0292	3.7000e-004	0.0295	0.0000	71.0554	71.0554	5.2000e-003	3.3500e-003	72.1837
Unmitigated	0.0361	0.0361	0.3591	7.7000e-004	0.1093	4.0000e-004	0.1097	0.0292	3.7000e-004	0.0295	0.0000	71.0554	71.0554	5.2000e-003	3.3500e-003	72.1837

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	50.98	0.00	0.00	98,490	98,490
Government Office Building	20.72	0.00	0.00	29,312	29,312
Library	44.01	44.01	44.01	95,447	95,447
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	18.88	19.08	17.10	69,033	69,033
Total	134.59	63.09	61.11	292,282	292,282

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
Government (Civic Center)	14.70	6.60	6.60	75.00	20.00	5.00	50	34	16

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
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
Library	14.70	6.60	6.60	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245
Government Office Building	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245
Library	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245
Other Asphalt Surfaces	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245
Parking Lot	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245
Single Family Housing	0.583239	0.061086	0.166938	0.109899	0.022601	0.006845	0.010605	0.006285	0.000630	0.000663	0.027169	0.000796	0.003245

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8760	18.8760	1.1500e-003	1.4000e-004	18.9466
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	18.8760	18.8760	1.1500e-003	1.4000e-004	18.9466
NaturalGas Mitigated	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9126	6.9126	1.3000e-004	1.3000e-004	6.9536
NaturalGas Unmitigated	7.0000e-004	6.2200e-003	4.4000e-003	4.0000e-005		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	6.9126	6.9126	1.3000e-004	1.3000e-004	6.9536

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
Government (Civic Center)	40941.3	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1848	2.1848	4.0000e-005	4.0000e-005	2.1978
Government Office Building	28843.2	1.6000e-004	1.4100e-003	1.1900e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5392	1.5392	3.0000e-005	3.0000e-005	1.5483
Library	16588.8	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8852	0.8852	2.0000e-005	2.0000e-005	0.8905
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
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
Single Family Housing	43162.9	2.3000e-004	1.9900e-003	8.5000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3033	2.3033	4.0000e-005	4.0000e-005	2.3170
Total		**7.0000e-004**	**6.2200e-003**	**4.4100e-003**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**6.9125**	**6.9125**	**1.3000e-004**	**1.3000e-004**	**6.9536**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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

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					
Government (Civic Center)	40941.3	2.2000e-004	2.0100e-003	1.6900e-003	1.0000e-005		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	2.1848	2.1848	4.0000e-005	4.0000e-005	2.1978
Government Office Building	28843.2	1.6000e-004	1.4100e-003	1.1900e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5392	1.5392	3.0000e-005	3.0000e-005	1.5483
Library	16588.8	9.0000e-005	8.1000e-004	6.8000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8852	0.8852	2.0000e-005	2.0000e-005	0.8905
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
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
Single Family Housing	43162.9	2.3000e-004	1.9900e-003	8.5000e-004	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3033	2.3033	4.0000e-005	4.0000e-005	2.3170
Total		**7.0000e-004**	**6.2200e-003**	**4.4100e-003**	**3.0000e-005**		**4.8000e-004**	**4.8000e-004**		**4.8000e-004**	**4.8000e-004**	**0.0000**	**6.9125**	**6.9125**	**1.3000e-004**	**1.3000e-004**	**6.9536**

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			
Government (Civic Center)	26449.4	6.4783	4.0000e-004	5.0000e-005	6.5025
Government Office Building	18633.6	4.5639	2.8000e-004	3.0000e-005	4.5810
Library	11779.2	2.8851	1.8000e-004	2.0000e-005	2.8959
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4536	1.1110	7.0000e-005	1.0000e-005	1.1152
Single Family Housing	15668.7	3.8377	2.3000e-004	3.0000e-005	3.8521
Total		**18.8760**	**1.1600e-003**	**1.4000e-004**	**18.9466**

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			
Government (Civic Center)	26449.4	6.4783	4.0000e-004	5.0000e-005	6.5025
Government Office Building	18633.6	4.5639	2.8000e-004	3.0000e-005	4.5810
Library	11779.2	2.8851	1.8000e-004	2.0000e-005	2.8959
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	4536	1.1110	7.0000e-005	1.0000e-005	1.1152
Single Family Housing	15668.7	3.8377	2.3000e-004	3.0000e-005	3.8521
Total		**18.8760**	**1.1600e-003**	**1.4000e-004**	**18.9466**

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	0.0674	0.0213	0.0935	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684
Unmitigated	0.0674	0.0213	0.0935	6.7000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003	4.4470	0.0257	4.4727	0.0238	0.0000	5.0684

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	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0247	0.0211	0.0780	6.6000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003	4.4470	0.0000	4.4470	0.0238	0.0000	5.0420
Landscaping	5.1000e-004	1.8000e-004	0.0155	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.0674**	**0.0213**	**0.0935**	**6.6000e-004**		**9.4400e-003**	**9.4400e-003**		**9.4400e-003**	**9.4400e-003**	**4.4470**	**0.0257**	**4.4727**	**0.0238**	**0.0000**	**5.0684**

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	4.1100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0247	0.0211	0.0780	6.6000e-004		9.3600e-003	9.3600e-003		9.3600e-003	9.3600e-003	4.4470	0.0000	4.4470	0.0238	0.0000	5.0420
Landscaping	5.1000e-004	1.8000e-004	0.0155	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0257	0.0257	3.0000e-005	0.0000	0.0264
Total	**0.0674**	**0.0213**	**0.0935**	**6.6000e-004**		**9.4400e-003**	**9.4400e-003**		**9.4400e-003**	**9.4400e-003**	**4.4470**	**0.0257**	**4.4727**	**0.0238**	**0.0000**	**5.0684**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

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	3.9996	0.0228	5.6000e-004	4.7375
Unmitigated	4.6074	0.0285	7.0000e-004	5.5284

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	MT/yr			
Government (Civic Center)	0.405266 / 0.248389	2.0970	0.0133	3.3000e-004	2.5274
Government Office Building	0.28607 / 0.175333	1.4802	9.4100e-003	2.3000e-004	1.7840
Library	0.045056 / 0.0704723	0.3498	1.4900e-003	4.0000e-005	0.3980
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.130308 / 0.0821507	0.6805	4.2900e-003	1.0000e-004	0.8189
Total		**4.6074**	**0.0285**	**7.0000e-004**	**5.5284**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	0.324213 / 0.248389	1.8128	0.0107	2.6000e-004	2.1576
Government Office Building	0.228856 / 0.175333	1.2796	7.5300e-003	1.9000e-004	1.5230
Library	0.0360448 / 0.0704723	0.3182	1.1900e-003	3.0000e-005	0.3569
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	0.104246 / 0.0821507	0.5891	3.4300e-003	8.0000e-005	0.7000
Total		**3.9996**	**0.0228**	**5.6000e-004**	**4.7375**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Annual

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	3.4021	0.2011	0.0000	8.4286
Unmitigated	3.4021	0.2011	0.0000	8.4286

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	MT/yr			
Government (Civic Center)	11.63	2.3608	0.1395	0.0000	5.8487
Government Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Library	1.33	0.2700	0.0160	0.0000	0.6689
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**3.4021**	**0.2011**	**0.0000**	**8.4286**

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			
Government (Civic Center)	11.63	2.3608	0.1395	0.0000	5.8487
Government Office Building	1.34	0.2720	0.0161	0.0000	0.6739
Library	1.33	0.2700	0.0160	0.0000	0.6689
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		**3.4021**	**0.2011**	**0.0000**	**8.4286**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	20	15	0.73	CNG
Emergency Generator	3	0	20	30	0.73	CNG

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Boilers

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

User Defined Equipment

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - CNG (0 - 500 HP)	0.0106	1.0200e-003	0.0275	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.6119	0.6119	1.2800e-003	0.0000	0.6439
Total	**0.0106**	**1.0200e-003**	**0.0275**	**0.0000**		**6.0000e-005**	**6.0000e-005**		**6.0000e-005**	**6.0000e-005**	**0.0000**	**0.6119**	**0.6119**	**1.2800e-003**	**0.0000**	**0.6439**

11.0 Vegetation

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Ewiiaapaayp Tribal Facilities and Housing Project

San Diego County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	1.44	1000sqft	0.03	1,440.00	0
Library	1.44	1000sqft	0.03	1,440.00	0
Single Family Housing	2.00	Dwelling Unit	0.65	3,600.00	6
Government (Civic Center)	2.04	1000sqft	0.05	2,044.00	0
Parking Lot	12.96	1000sqft	0.30	12,960.00	0
Other Asphalt Surfaces	61.95	1000sqft	1.42	61,950.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.6	**Precipitation Freq (Days)**	40
Climate Zone	13			**Operational Year**	2025
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Architectural Coating - Compliance with APCD Rule 67.0.1

Area Coating - Compliance with APCD Rule 67.0.1

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Area Mitigation - Compliance with Rule 67.0.1

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Water Mitigation -

Energy Mitigation -

Woodstoves - No fireplaces

Vehicle Trips - Adjusted for consistency with Local Mobility Analysis (LLG, 2023)

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	50
tblAreaCoating	Area_EF_Nonresidential_Interior	250	50
tblAreaCoating	Area_EF_Residential_Exterior	250	50
tblAreaCoating	Area_EF_Residential_Interior	250	50
tblFireplaces	NumberGas	1.10	0.00
tblFireplaces	NumberNoFireplace	0.20	0.00
tblFireplaces	NumberWood	0.70	0.00
tblLandUse	LandUseSquareFeet	2,040.00	2,044.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	15.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	30.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	20.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	ST_TR	80.09	30.56
tblVehicleTrips	SU_TR	42.09	30.56
tblVehicleTrips	WD_TR	33.98	24.94
tblVehicleTrips	WD_TR	22.59	14.39

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	72.05	30.56
tblWoodstoves	NumberPellet	0.00	2.00

2.0 Emissions Summary

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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	1.7245	13.9145	15.3941	0.0311	7.2103	0.6319	7.7832	3.4586	0.5902	3.9857	0.0000	2,918.6238	2,918.6238	0.7695	0.0453	2,943.1718
2025	9.9363	12.5986	15.2255	0.0309	0.5139	0.4751	0.9890	0.1381	0.4546	0.5927	0.0000	2,901.2693	2,901.2693	0.5450	0.0440	2,925.2743
Maximum	**9.9363**	**13.9145**	**15.3941**	**0.0311**	**7.2103**	**0.6319**	**7.7832**	**3.4586**	**0.5902**	**3.9857**	**0.0000**	**2,918.6238**	**2,918.6238**	**0.7695**	**0.0453**	**2,943.1718**

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	1.7245	13.9145	15.3941	0.0311	3.3149	0.6319	3.8878	1.5750	0.5902	2.1020	0.0000	2,918.6238	2,918.6238	0.7695	0.0453	2,943.1718
2025	9.9363	12.5986	15.2255	0.0309	0.5139	0.4751	0.9890	0.1381	0.4546	0.5927	0.0000	2,901.2693	2,901.2693	0.5450	0.0440	2,925.2742
Maximum	**9.9363**	**13.9145**	**15.3941**	**0.0311**	**3.3149**	**0.6319**	**3.8878**	**1.5750**	**0.5902**	**2.1020**	**0.0000**	**2,918.6238**	**2,918.6238**	**0.7695**	**0.0453**	**2,943.1718**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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**	**50.43**	**0.00**	**44.41**	**52.37**	**0.00**	**41.14**	**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	0.8433	0.5175	2.0751	0.0162		0.2292	0.2292		0.2292	0.2292	119.5603	0.3146	119.8749	0.6403	0.0000	135.8812
Energy	3.8300e-003	0.0341	0.0241	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003		41.7522	41.7522	8.0000e-004	7.7000e-004	42.0003
Mobile	0.3541	0.3406	3.0502	6.6900e-003	0.7256	5.0300e-003	0.7307	0.1933	4.6900e-003	0.1980		681.3374	681.3374	0.0464	0.0292	691.1955
Stationary	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	**1.2013**	**0.8922**	**5.1494**	**0.0231**	**0.7256**	**0.2369**	**0.9625**	**0.1933**	**0.2366**	**0.4298**	**119.5603**	**723.4042**	**842.9645**	**0.6875**	**0.0300**	**869.0771**

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	lb/day										lb/day					
Area	0.8433	0.5175	2.0751	0.0162		0.2292	0.2292		0.2292	0.2292	119.5603	0.3146	119.8749	0.6403	0.0000	135.8812
Energy	3.8300e-003	0.0341	0.0241	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003		41.7522	41.7522	8.0000e-004	7.7000e-004	42.0003
Mobile	0.3541	0.3406	3.0502	6.6900e-003	0.7256	5.0300e-003	0.7307	0.1933	4.6900e-003	0.1980		681.3374	681.3374	0.0464	0.0292	691.1955
Stationary	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	**1.2013**	**0.8922**	**5.1494**	**0.0231**	**0.7256**	**0.2369**	**0.9625**	**0.1933**	**0.2366**	**0.4298**	**119.5603**	**723.4042**	**842.9645**	**0.6875**	**0.0300**	**869.0771**

	ROG	NOx	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	Demolition	Demolition	6/1/2024	6/28/2024	5	20	
2	Site Preparation	Site Preparation	6/29/2024	7/3/2024	5	3	
3	Grading	Grading	7/4/2024	7/11/2024	5	6	
4	Building Construction	Building Construction	7/12/2024	5/15/2025	5	220	

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5	Paving	Paving	5/16/2025	5/29/2025	5	10	
6	Architectural Coating	Architectural Coating	5/30/2025	6/12/2025	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.72

Residential Indoor: 7,290; Residential Outdoor: 2,430; Non-Residential Indoor: 7,386; Non-Residential Outdoor: 2,462; Striped Parking Area: 4,495 (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
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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
Demolition	5	13.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	34.00	13.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
Total	**1.4397**	**13.8867**	**13.4879**	**0.0241**		**0.6311**	**0.6311**		**0.5895**	**0.5895**		**2,324.9459**	**2,324.9459**	**0.5884**		**2,339.6562**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0278	0.4227	1.4100e-003	0.1661	8.2000e-004	0.1669	0.0440	7.5000e-004	0.0448		142.1334	142.1334	2.9100e-003	3.0600e-003	143.1185
Total	**0.0432**	**0.0278**	**0.4227**	**1.4100e-003**	**0.1661**	**8.2000e-004**	**0.1669**	**0.0440**	**7.5000e-004**	**0.0448**		**142.1334**	**142.1334**	**2.9100e-003**	**3.0600e-003**	**143.1185**

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	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
Total	**1.4397**	**13.8867**	**13.4879**	**0.0241**		**0.6311**	**0.6311**		**0.5895**	**0.5895**	**0.0000**	**2,324.9459**	**2,324.9459**	**0.5884**		**2,339.6562**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Demolition - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0432	0.0278	0.4227	1.4100e-003	0.1661	8.2000e-004	0.1669	0.0440	7.5000e-004	0.0448		142.1334	142.1334	2.9100e-003	3.0600e-003	143.1185
Total	**0.0432**	**0.0278**	**0.4227**	**1.4100e-003**	**0.1661**	**8.2000e-004**	**0.1669**	**0.0440**	**7.5000e-004**	**0.0448**		**142.1334**	**142.1334**	**2.9100e-003**	**3.0600e-003**	**143.1185**

3.3 Site Preparation - 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					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573		2,373.6514	2,373.6514	0.7677		2,392.8435
Total	**1.2406**	**13.1186**	**9.5796**	**0.0245**	**1.5908**	**0.4971**	**2.0878**	**0.1718**	**0.4573**	**0.6291**		**2,373.6514**	**2,373.6514**	**0.7677**		**2,392.8435**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0171	0.2601	8.7000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		87.4667	87.4667	1.7900e-003	1.8800e-003	88.0729
Total	**0.0266**	**0.0171**	**0.2601**	**8.7000e-004**	**0.1022**	**5.0000e-004**	**0.1027**	**0.0271**	**4.6000e-004**	**0.0276**		**87.4667**	**87.4667**	**1.7900e-003**	**1.8800e-003**	**88.0729**

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					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.2406	13.1186	9.5796	0.0245		0.4971	0.4971		0.4573	0.4573	0.0000	2,373.6514	2,373.6514	0.7677		2,392.8435
Total	**1.2406**	**13.1186**	**9.5796**	**0.0245**	**0.7158**	**0.4971**	**1.2129**	**0.0773**	**0.4573**	**0.5346**	**0.0000**	**2,373.6514**	**2,373.6514**	**0.7677**		**2,392.8435**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Site Preparation - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0266	0.0171	0.2601	8.7000e-004	0.1022	5.0000e-004	0.1027	0.0271	4.6000e-004	0.0276		87.4667	87.4667	1.7900e-003	1.8800e-003	88.0729
Total	**0.0266**	**0.0171**	**0.2601**	**8.7000e-004**	**0.1022**	**5.0000e-004**	**0.1027**	**0.0271**	**4.6000e-004**	**0.0276**		**87.4667**	**87.4667**	**1.7900e-003**	**1.8800e-003**	**88.0729**

3.4 Grading - 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					
Fugitive Dust					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
Total	**1.3015**	**13.8178**	**8.6998**	**0.0206**	**7.0826**	**0.5722**	**7.6548**	**3.4247**	**0.5265**	**3.9512**		**1,995.5803**	**1,995.5803**	**0.6454**		**2,011.7155**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0214	0.3251	1.0800e-003	0.1277	6.3000e-004	0.1284	0.0339	5.8000e-004	0.0345		109.3334	109.3334	2.2400e-003	2.3600e-003	110.0912
Total	**0.0333**	**0.0214**	**0.3251**	**1.0800e-003**	**0.1277**	**6.3000e-004**	**0.1284**	**0.0339**	**5.8000e-004**	**0.0345**		**109.3334**	**109.3334**	**2.2400e-003**	**2.3600e-003**	**110.0912**

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					3.1872	0.0000	3.1872	1.5411	0.0000	1.5411			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.5803	1,995.5803	0.6454		2,011.7155
Total	**1.3015**	**13.8178**	**8.6998**	**0.0206**	**3.1872**	**0.5722**	**3.7594**	**1.5411**	**0.5265**	**2.0676**	**0.0000**	**1,995.5803**	**1,995.5803**	**0.6454**		**2,011.7155**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Grading - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0333	0.0214	0.3251	1.0800e-003	0.1277	6.3000e-004	0.1284	0.0339	5.8000e-004	0.0345		109.3334	109.3334	2.2400e-003	2.3600e-003	110.0912
Total	**0.0333**	**0.0214**	**0.3251**	**1.0800e-003**	**0.1277**	**6.3000e-004**	**0.1284**	**0.0339**	**5.8000e-004**	**0.0345**		**109.3334**	**109.3334**	**2.2400e-003**	**2.3600e-003**	**110.0912**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**1.5971**	**12.8235**	**14.1002**	**0.0250**		**0.5381**	**0.5381**		**0.5153**	**0.5153**		**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.5146	0.1885	2.3800e-003	0.0796	3.0900e-003	0.0827	0.0229	2.9600e-003	0.0259		257.2363	257.2363	8.1200e-003	0.0373	268.5464
Worker	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100
Total	**0.1274**	**0.5874**	**1.2939**	**6.0600e-003**	**0.5139**	**5.2200e-003**	**0.5192**	**0.1381**	**4.9200e-003**	**0.1430**		**628.9697**	**628.9697**	**0.0157**	**0.0453**	**642.8564**

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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.6541	2,289.6541	0.4265		2,300.3154
Total	**1.5971**	**12.8235**	**14.1002**	**0.0250**		**0.5381**	**0.5381**		**0.5153**	**0.5153**	**0.0000**	**2,289.6541**	**2,289.6541**	**0.4265**		**2,300.3154**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0143	0.5146	0.1885	2.3800e-003	0.0796	3.0900e-003	0.0827	0.0229	2.9600e-003	0.0259		257.2363	257.2363	8.1200e-003	0.0373	268.5464
Worker	0.1131	0.0728	1.1054	3.6800e-003	0.4343	2.1300e-003	0.4364	0.1152	1.9600e-003	0.1171		371.7334	371.7334	7.6100e-003	8.0100e-003	374.3100
Total	**0.1274**	**0.5874**	**1.2939**	**6.0600e-003**	**0.5139**	**5.2200e-003**	**0.5192**	**0.1381**	**4.9200e-003**	**0.1430**		**628.9697**	**628.9697**	**0.0157**	**0.0453**	**642.8564**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	**1.4897**	**12.0233**	**14.0072**	**0.0250**		**0.4700**	**0.4700**		**0.4498**	**0.4498**		**2,289.8898**	**2,289.8898**	**0.4200**		**2,300.3887**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.5096	0.1854	2.3300e-003	0.0796	3.0800e-003	0.0827	0.0229	2.9500e-003	0.0259		252.3282	252.3282	8.3300e-003	0.0365	263.4261
Worker	0.1066	0.0657	1.0329	3.5500e-003	0.4343	2.0400e-003	0.4363	0.1152	1.8800e-003	0.1170		359.0513	359.0513	6.9100e-003	7.5000e-003	361.4595
Total	**0.1205**	**0.5752**	**1.2183**	**5.8800e-003**	**0.5139**	**5.1200e-003**	**0.5190**	**0.1381**	**4.8300e-003**	**0.1429**		**611.3795**	**611.3795**	**0.0152**	**0.0440**	**624.8856**

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	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	**1.4897**	**12.0233**	**14.0072**	**0.0250**		**0.4700**	**0.4700**		**0.4498**	**0.4498**	**0.0000**	**2,289.8898**	**2,289.8898**	**0.4200**		**2,300.3887**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0139	0.5096	0.1854	2.3300e-003	0.0796	3.0800e-003	0.0827	0.0229	2.9500e-003	0.0259		252.3282	252.3282	8.3300e-003	0.0365	263.4261
Worker	0.1066	0.0657	1.0329	3.5500e-003	0.4343	2.0400e-003	0.4363	0.1152	1.8800e-003	0.1170		359.0513	359.0513	6.9100e-003	7.5000e-003	361.4595
Total	**0.1205**	**0.5752**	**1.2183**	**5.8800e-003**	**0.5139**	**5.1200e-003**	**0.5190**	**0.1381**	**4.8300e-003**	**0.1429**		**611.3795**	**611.3795**	**0.0152**	**0.0440**	**624.8856**

3.6 Paving - 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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234		1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.4506					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2361**	**7.4371**	**11.6737**	**0.0179**		**0.3503**	**0.3503**		**0.3234**	**0.3234**		**1,710.0067**	**1,710.0067**	**0.5420**		**1,723.5556**

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	0.0471	0.0290	0.4557	1.5700e-003	0.1916	9.0000e-004	0.1925	0.0508	8.3000e-004	0.0516		158.4050	158.4050	3.0500e-003	3.3100e-003	159.4674
Total	**0.0471**	**0.0290**	**0.4557**	**1.5700e-003**	**0.1916**	**9.0000e-004**	**0.1925**	**0.0508**	**8.3000e-004**	**0.0516**		**158.4050**	**158.4050**	**3.0500e-003**	**3.3100e-003**	**159.4674**

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	0.7854	7.4371	11.6737	0.0179		0.3503	0.3503		0.3234	0.3234	0.0000	1,710.0067	1,710.0067	0.5420		1,723.5556
Paving	0.4506					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.2361**	**7.4371**	**11.6737**	**0.0179**		**0.3503**	**0.3503**		**0.3234**	**0.3234**	**0.0000**	**1,710.0067**	**1,710.0067**	**0.5420**		**1,723.5556**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Paving - 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	0.0471	0.0290	0.4557	1.5700e-003	0.1916	9.0000e-004	0.1925	0.0508	8.3000e-004	0.0516		158.4050	158.4050	3.0500e-003	3.3100e-003	159.4674
Total	**0.0471**	**0.0290**	**0.4557**	**1.5700e-003**	**0.1916**	**9.0000e-004**	**0.1925**	**0.0508**	**8.3000e-004**	**0.0516**		**158.4050**	**158.4050**	**3.0500e-003**	**3.3100e-003**	**159.4674**

3.7 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	9.7435					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	**9.9143**	**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

3.7 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	0.0220	0.0135	0.2127	7.3000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		73.9223	73.9223	1.4200e-003	1.5400e-003	74.4181
Total	**0.0220**	**0.0135**	**0.2127**	**7.3000e-004**	**0.0894**	**4.2000e-004**	**0.0898**	**0.0237**	**3.9000e-004**	**0.0241**		**73.9223**	**73.9223**	**1.4200e-003**	**1.5400e-003**	**74.4181**

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	9.7435					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	**9.9143**	**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

3.7 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	0.0220	0.0135	0.2127	7.3000e-004	0.0894	4.2000e-004	0.0898	0.0237	3.9000e-004	0.0241		73.9223	73.9223	1.4200e-003	1.5400e-003	74.4181
Total	**0.0220**	**0.0135**	**0.2127**	**7.3000e-004**	**0.0894**	**4.2000e-004**	**0.0898**	**0.0237**	**3.9000e-004**	**0.0241**		**73.9223**	**73.9223**	**1.4200e-003**	**1.5400e-003**	**74.4181**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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	0.3541	0.3406	3.0502	6.6900e-003	0.7256	5.0300e-003	0.7307	0.1933	4.6900e-003	0.1980		681.3374	681.3374	0.0464	0.0292	691.1955
Unmitigated	0.3541	0.3406	3.0502	6.6900e-003	0.7256	5.0300e-003	0.7307	0.1933	4.6900e-003	0.1980		681.3374	681.3374	0.0464	0.0292	691.1955

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	50.88	0.00	0.00	98,297	98,297
Government Office Building	20.72	0.00	0.00	29,312	29,312
Library	44.01	44.01	44.01	95,447	95,447
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Single Family Housing	18.88	19.08	17.10	69,033	69,033
Total	134.49	63.09	61.11	292,089	292,089

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
Government (Civic Center)	14.70	6.60	6.60	75.00	20.00	5.00	50	34	16
Government Office Building	14.70	6.60	6.60	33.00	62.00	5.00	50	34	16
Library	14.70	6.60	6.60	52.00	43.00	5.00	44	44	12
Other Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Single Family Housing	16.80	7.10	7.90	41.60	18.80	39.60	86	11	3

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Government Office Building	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Library	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Other Asphalt Surfaces	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Parking Lot	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751
Single Family Housing	0.561854	0.062428	0.177046	0.117565	0.023832	0.006317	0.008949	0.006298	0.000705	0.000577	0.028723	0.000955	0.004751

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	3.8300e-003	0.0341	0.0241	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003		41.7522	41.7522	8.0000e-004	7.7000e-004	42.0003
NaturalGas Unmitigated	3.8300e-003	0.0341	0.0241	2.1000e-004		2.6400e-003	2.6400e-003		2.6400e-003	2.6400e-003		41.7522	41.7522	8.0000e-004	7.7000e-004	42.0003

Ewiiaapaayp Tribal Community and Fee-to-Trust Project; San Diego 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					
Government (Civic Center)	112.168	1.2100e-003	0.0110	9.2400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.1962	13.1962	2.5000e-004	2.4000e-004	13.2747
Government Office Building	79.0225	8.5000e-004	7.7500e-003	6.5100e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.2968	9.2968	1.8000e-004	1.7000e-004	9.3520
Library	45.4488	4.9000e-004	4.4600e-003	3.7400e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		5.3469	5.3469	1.0000e-004	1.0000e-004	5.3787
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
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
Single Family Housing	118.255	1.2800e-003	0.0109	4.6400e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.9123	13.9123	2.7000e-004	2.6000e-004	13.9950
Total		**3.8300e-003**	**0.0341**	**0.0241**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**		**41.7522**	**41.7522**	**8.0000e-004**	**7.7000e-004**	**42.0003**

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					
Government (Civic Center)	0.112168	1.2100e-003	0.0110	9.2400e-003	7.0000e-005		8.4000e-004	8.4000e-004		8.4000e-004	8.4000e-004		13.1962	13.1962	2.5000e-004	2.4000e-004	13.2747
Government Office Building	0.0790225	8.5000e-004	7.7500e-003	6.5100e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004		9.2968	9.2968	1.8000e-004	1.7000e-004	9.3520
Library	0.0454488	4.9000e-004	4.4600e-003	3.7400e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004		5.3469	5.3469	1.0000e-004	1.0000e-004	5.3787
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
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
Single Family Housing	0.118255	1.2800e-003	0.0109	4.6400e-003	7.0000e-005		8.8000e-004	8.8000e-004		8.8000e-004	8.8000e-004		13.9123	13.9123	2.7000e-004	2.6000e-004	13.9950
Total		**3.8300e-003**	**0.0341**	**0.0241**	**2.2000e-004**		**2.6500e-003**	**2.6500e-003**		**2.6500e-003**	**2.6500e-003**		**41.7522**	**41.7522**	**8.0000e-004**	**7.7000e-004**	**42.0003**

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	0.8433	0.5175	2.0751	0.0162		0.2292	0.2292		0.2292	0.2292	119.5603	0.3146	119.8749	0.6403	0.0000	135.8812
Unmitigated	0.8433	0.5175	2.0751	0.0162		0.2292	0.2292		0.2292	0.2292	119.5603	0.3146	119.8749	0.6403	0.0000	135.8812

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	0.0267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6020	0.5155	1.9021	0.0162		0.2283	0.2283		0.2283	0.2283	119.5603	0.0000	119.5603	0.6399	0.0000	135.5584
Landscaping	5.7000e-003	1.9700e-003	0.1730	1.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		0.3146	0.3146	3.3000e-004		0.3228
Total	**0.8433**	**0.5174**	**2.0751**	**0.0162**		**0.2292**	**0.2292**		**0.2292**	**0.2292**	**119.5603**	**0.3146**	**119.8749**	**0.6403**	**0.0000**	**135.8812**

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	0.0267					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2090					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.6020	0.5155	1.9021	0.0162		0.2283	0.2283		0.2283	0.2283	119.5603	0.0000	119.5603	0.6399	0.0000	135.5584
Landscaping	5.7000e-003	1.9700e-003	0.1730	1.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		0.3146	0.3146	3.3000e-004		0.3228
Total	**0.8433**	**0.5174**	**2.0751**	**0.0162**		**0.2292**	**0.2292**		**0.2292**	**0.2292**	**119.5603**	**0.3146**	**119.8749**	**0.6403**	**0.0000**	**135.8812**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	20	15	0.73	CNG
Emergency Generator	3	0	20	30	0.73	CNG

Boilers

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

User Defined Equipment

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - CNG (0 - 500 HP)	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**

11.0 Vegetation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Appendix F

Biological Assessment and Species Lists

Appendix F-1

Biological Assessment

BIOLOGICAL ASSESSMENT



Ewiiaapaayp Band of Kumeyaay Indians Tribal Community and Fee-to-Trust Project

San Diego County, CA | August 2024

acorn environmental

Prepared For:

Bureau of Indian Affairs
Pacific Regional Office
2800 Cottage Way Suite W-2820
Sacramento, CA 95825

BIOLOGICAL ASSESSMENT

Ewiiaapaayp Band of Kumeyaay Indians
Tribal Community and Fee-to-Trust Project

San Diego County, CA | August 2024

Prepared For:

Bureau of Indian Affairs
Pacific Regional Office
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Attachment B Biological Opinion
Attachment C List of Plants Detected
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Section 1 | Introduction

1.1 PURPOSE OF ASSESSMENT

The purpose of this Biological Assessment is to provide technical information and to review the Proposed Action in sufficient detail to determine to what extent the Proposed Action may affect species that are federally threatened, endangered, or proposed for listing. This Biological Assessment has been prepared in accordance with legal requirements found in Section 7 (a)(2) of the Endangered Species Act (16 USC 1536(c)). The purpose of a Biological Assessment is to evaluate the potential effects of an action on species listed and proposed for listing, as well as designated and proposed critical habitat, and to determine whether any such species or habitat are likely to be adversely affected by the action.

1.2 DESCRIPTION OF PROPOSED ACTION AND ACTION AREA

The Action Area consists of three parcels totaling 48.7 acres:

- Walker parcel: Assessor Parcel Number (APN) 4040802600, 16.7 acres, no address
- Walker 2 parcel: APN 4040901300, 13.3 acres, 4221 Alpine Boulevard
- Salerno parcel: APN 4040900700, 18.7 acres, no address

The Tribe is proposing to transfer the parcels from fee title to federal trust and subsequently develop the parcels with tribal facilities and housing (Proposed Action). **Figure 1** and **Figure 2** show the location of the Action Area, and **Figure 3** presents an aerial photograph of the Action Area and the immediate vicinity. A preliminary site plan is shown in **Figure 4** and project components are discussed in greater detail below.

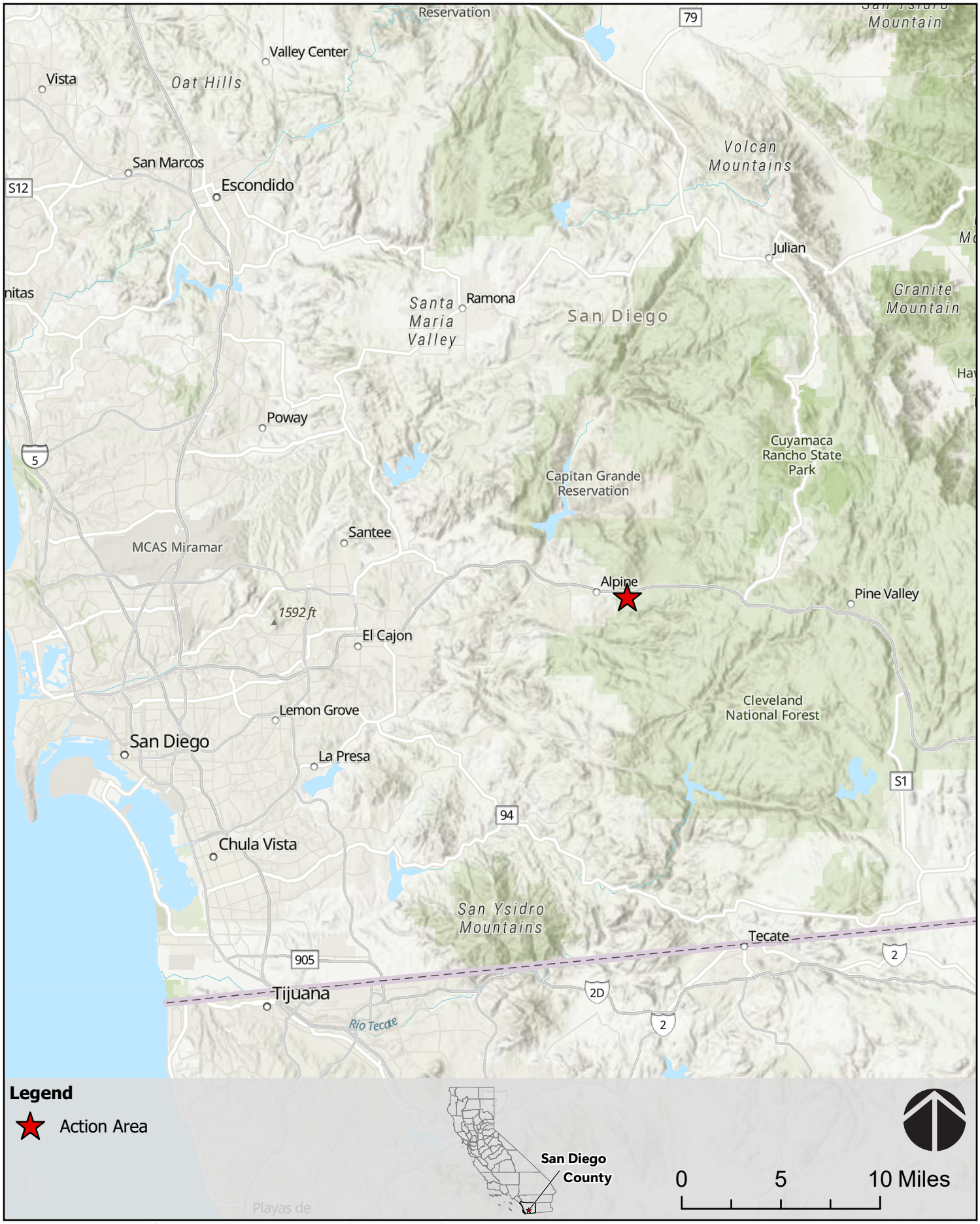
The Action Area is defined as the boundary of all three parcels and totals approximately 48.7 acres. For purposes of this assessment, the sum of the development footprints plus a 10-foot buffer around proposed access drives/parking and a 50-foot buffer around proposed buildings were designated as the Project Area to include staging, utilities, landscaping, and fuel maintenance, which totals approximately 4.58 acres. The Action Area is defined to identify biological resources adjacent to the Project Area and is the area subject to potential indirect effects from development.

1.2.1 Tribal Office

An approximately 1,440 square-foot (sf) Tribal office would be constructed on the Walker parcel. The office would include two executive council workstations with storage rooms and a 432-sf general council meeting room. The office facility would also have two restrooms accessible from the main entrance area and a third restroom exclusive to one of the executive council workstations. A deck/patio would be accessible from the meeting room and is included in the 1,440 sf of the structure.

1.2.2 Library/Community Center

The library/community center would be approximately 1,440 sf and would have the same floor plan as the Tribal office facility. The library community center would be constructed on the Salerno parcel and would include a designated library space, a small meeting room, and a large meeting room. A deck/patio would be accessible from the meeting room and is included in the 1,440 sf.



Esri, CGIAR, USGS, SanGIS, California State Parks, Esri, HERE, Garmin, SafeGraph, FAO, METI/ NASA, USGS, Bureau of Land Management, EPA, NPS

FIGURE 1

REGIONAL LOCATION

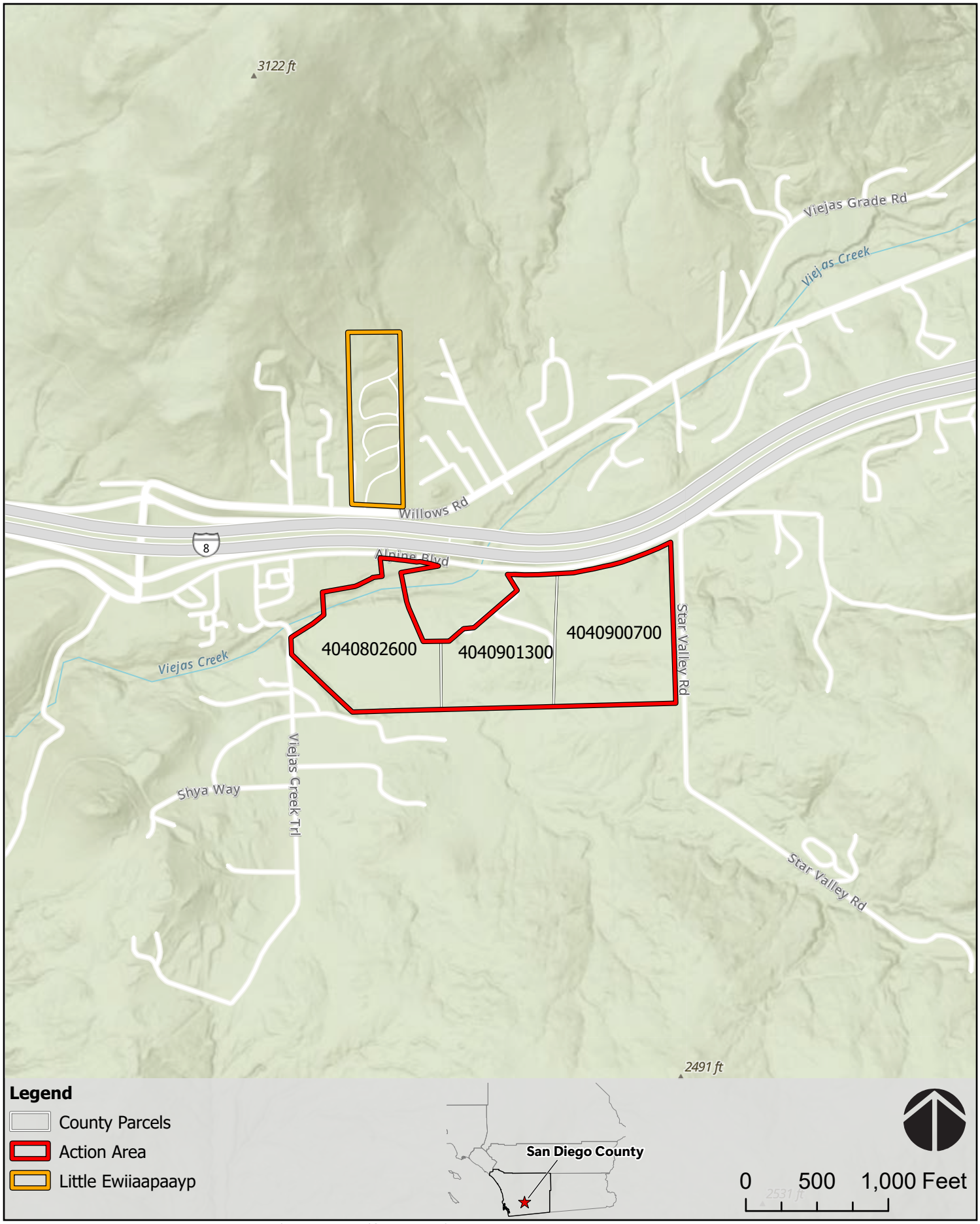


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FIGURE 2
SITE AND VICINITY



Esri Community Maps Contributors, SanGIS, California State Parks, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land

FIGURE 3
AERIAL OVERVIEW



Source: Maxar Imagery (Feb. 2022)

FIGURE 4

PROPOSED SITE PLAN

1.2.3 Tribal Housing

Two houses approximately 720 sf in size would be constructed on the Salerno parcel. Each house would have the same floor plan and would consist of one bedroom and one bathroom on a raised foundation. Each house would be equipped with washer/dryer hookups and a freestanding pellet stove.

1.2.4 Emergency Tribal Center

An existing re-purposed 2,044 sf single family detached home within the central portion of the Action Area is currently designated by the Tribe as an emergency center. During events requiring isolation or quarantine, the center can serve as a non-congregating shelter facility for up to two families. During emergency events that do not require isolation, the facility is intended to function as a communications center for approximately two to four Tribal representatives/staff. No construction activities or other improvements to the emergency center are proposed. Although the emergency center is an existing use, this report conservatively considers the effects associated with an increase in visitation/occupation of the center during an emergency event.

1.2.5 Access

The Proposed Action includes the development of a new access road off Alpine Boulevard, as shown on **Figure 5**. On-site circulation would consist of a main access drive leading to the Tribal office facility, with a secondary drive off which the remaining developments would be located. The main access drive would be approximately 24 feet wide and paved. The secondary drive would also be paved and would be 20 feet in width. The access drives largely follow the existing unpaved driveway network on site. A designated parking lot would be provided at the Tribal office facility and at the library community center. Each of these parking lots would be sized to accommodate approximately 16 parking stalls. Parking for the residences would be provided via the proposed house driveway, and parking for the renovated facility would be along the existing driveway.

1.3 BACKGROUND

An Environmental Assessment was prepared pursuant to the National Environmental Policy Act (NEPA) in 2001 to assess the potential environmental impacts of the Tribe's previously proposed Alpine South Health Clinic Site Fee-to-Trust Transfer (previous project; AES, 2001). The previous project consisted of development of an approximately 26,400 square foot tribal health clinic and daycare, a 200-space parking lot, septic system and leach field, and water well. A comparison of habitat impacts of the previous project vs. the current Proposed Action is shown in **Table 1**. A Biological Assessment was prepared in 2001 (Mooney and Associates, 2001) and a Biological Opinion (FWS-SDG-1718.4) was issued by the Carlsbad Fish and Wildlife Office in 2002 to address potential biological resources impacts of the previous project (USFWS, 2002). Ultimately, the previous project was not developed.

The building square footages and intensity of development proposed on the Action Area at this time is reduced in comparison to the previous project proposed on the Walker parcel, and the Proposed Action would impact less designated critical habitat for Arroyo toad (2.96 acres compared to 4.58 acres under the previous project, however 0.92 acres of this under the current Proposed Action is ruderal/developed). However, as the footprint of new ground disturbance impacts would remain the same (4.58 acres), the Tribe proposes to maintain the previous conservation area size of 4.58 acres consistent with the Biological Opinion and associated Memorandum of Agreement (MOA) between the Tribe, USFWS, and BIA (USFWS, 2002).

TABLE 1: COMPARISON OF HABITAT IMPACTS OF THE PREVIOUS PROJECT VS CURRENT PROPOSED ACTION

Habitat	Previous Project Total Impact	Previous Project Impacts on Arroyo Toad Critical Habitat	Current Proposed Action Impacts	Current Proposed Action Impacts on Arroyo Toad Critical Habitat
Ruderal/developed	-	-	1.22 acres	0.92 acres
Pasture	4.58 acres	4.58 acres	0.81 acres	0.77 acres
Mixed chapparal/montane scrub	-	-	2.55 acres	1.27 acres
Total	4.58 acres	4.58 acres	4.58 acres	2.96 acres (2.04 acres excluding ruderal/developed)

1.4 CRITICAL HABITAT

The Action Area is located within the designated critical habitat of Arroyo Toad (*Anaxyrus californicus*). Specifically, this is Critical Habitat Map Unit 18 which includes the Sweetwater River, Peterson Canyon, and adjacent uplands (**Figure 5**).

1.5 USFWS SPECIES LIST

An official USFWS species list was generated online using the USFWS' IPaC Trust Resource Report System (IPaC Report; **Attachment A**). Additionally, southwestern willow flycatcher was evaluated in the previous Biological Assessment and Biological Opinion and has been included herein for thoroughness even though it no longer appears on the IPaC Report. The following federally protected resources were identified:

Plants

- Lassics Lupine (*Lupinus constancei*) Endangered
- San Diego Thornmint (*Acanthomintha ilicifolia*) Threatened

Mammals

None

Reptiles

- Southwestern pond turtle (*Actinemys pallida*) Proposed Threatened

Birds

- Coastal California Gnatcatcher (*Polioptila californica californica* Threatened
- Least Bell's Vireo (*Vireo bellii pusillus*) Endangered
- Southwestern Willow Flycatcher (*Empidonax traillii extimus*) Endangered

Amphibians

- Arroyo (arroyo Southwestern) Toad (*Anaxyrus californicus*) Endangered
- Western Spadefoot (*Spea hammondii*) Proposed Threatened

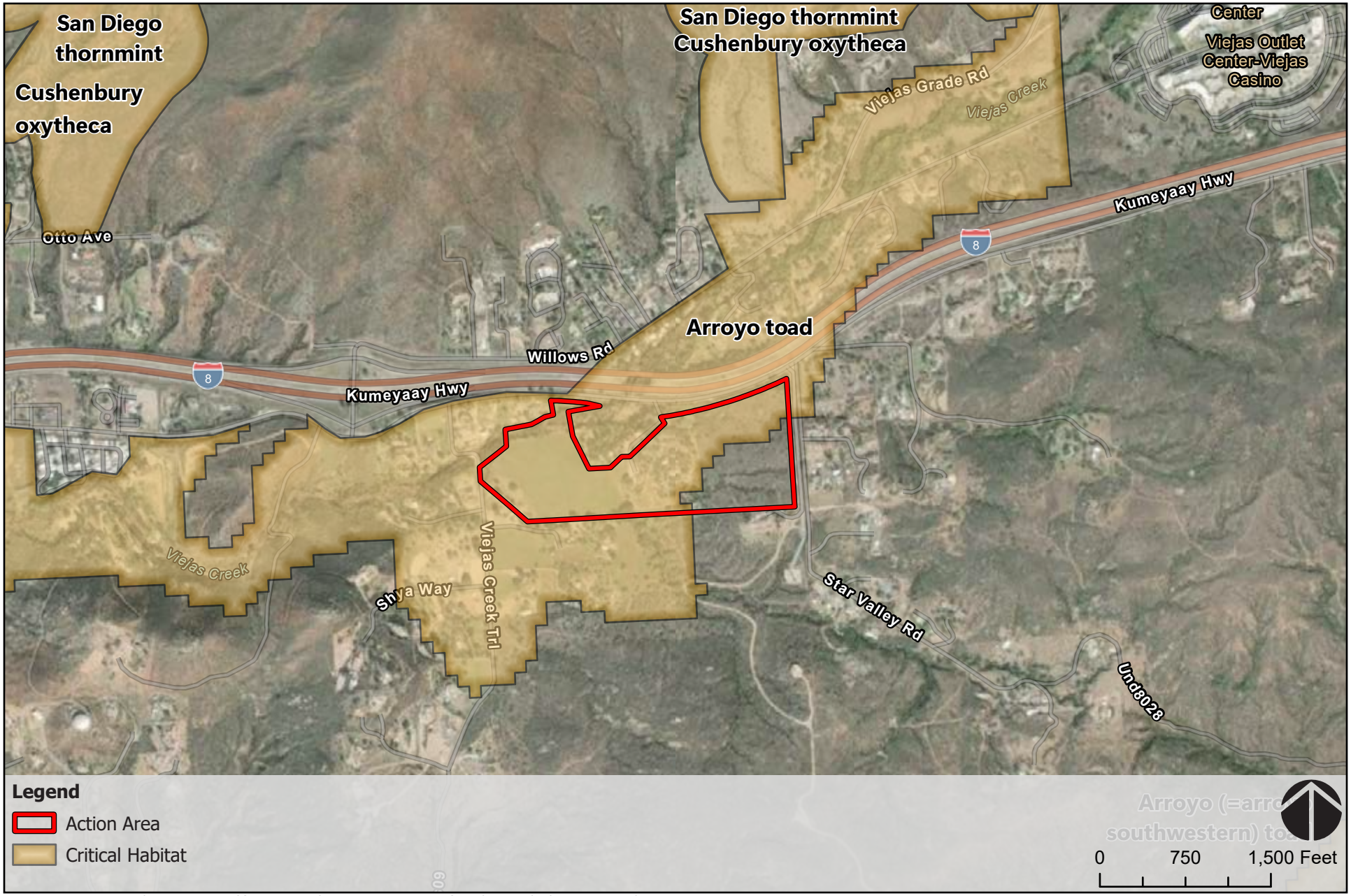

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FIGURE 5

CRITICAL HABITAT

Insects

- Hermes Copper Butterfly (*Lycaena hermes*) Threatened
- Monarch Butterfly (*Danaus plexippus*) Candidate

Migratory Birds

Under the Migratory Bird Treaty Act of 1918 (16 USC §703-711), migratory bird species and their nests and eggs that are on the federal list (50 CFR §10.13) are protected from injury or death, and project-related disturbances must be reduced or eliminated during the nesting cycle.

1.6 HISTORICAL OCCURRENCES OF LISTED SPECIES

The California Natural Diversity Database (CNDDB) and the SanBIOS database (County of San Diego, Land Use and Environment Group) were queried and reported occurrences of listed species were plotted in relation to the Action Area boundary using GIS software (**Figure 6**). Both the CNDDB and the SanBIOS database reported no federally-listed species occurrences within the Action Area. Within a mile radius, there is a reported occurrence of San Diego thornmint (on Viejas Mountain).

1.7 HABITAT CONSERVATION PLANS

The Action Area is not located within the covered area of any Habitat Conservation Plan or Natural Community Conservation Plan.

1.8 CONSULTATION TO DATE

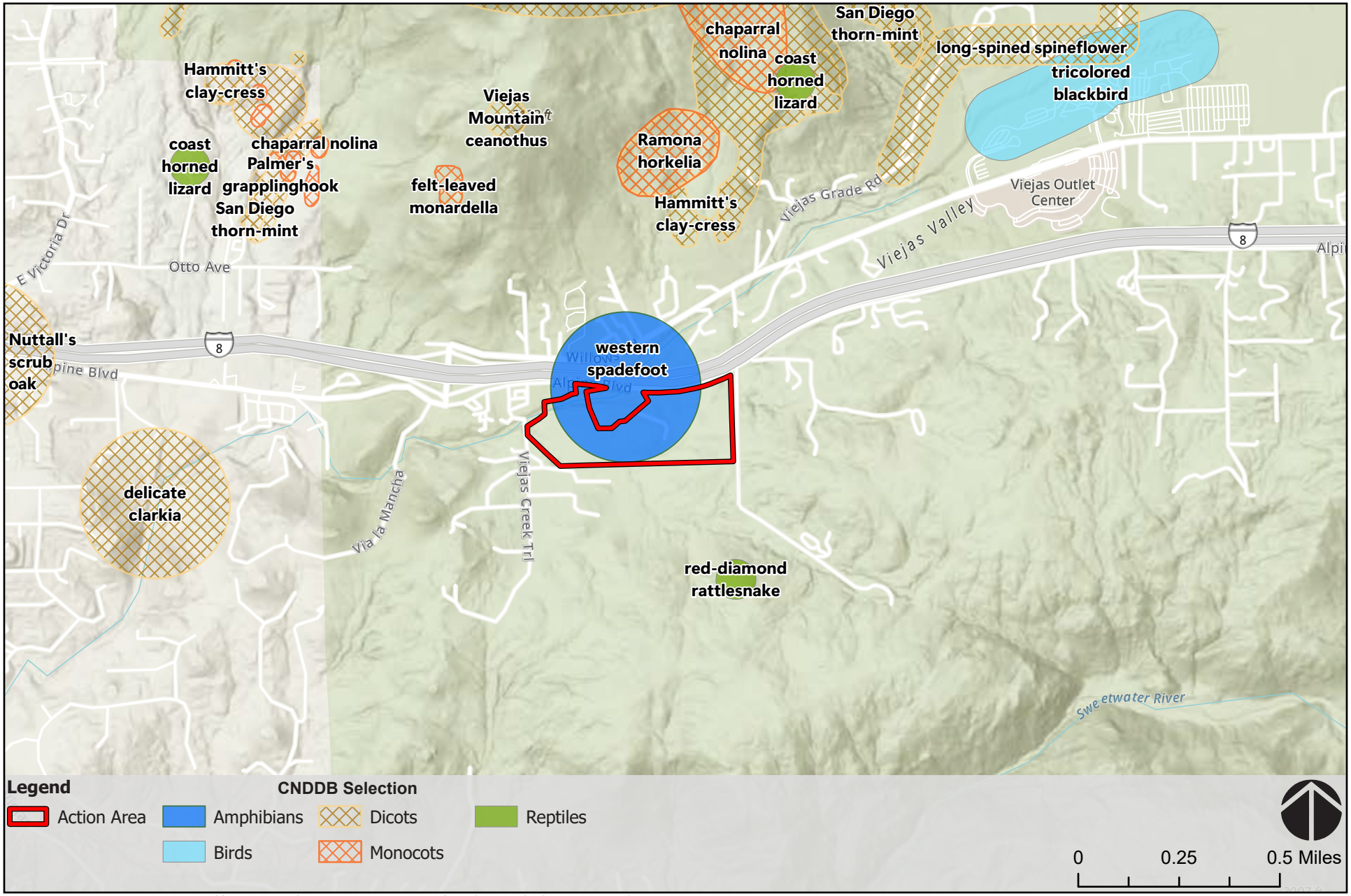
1.8.1 Biological Opinion

The Carlsbad Fish and Wildlife Office issued a previous Biological Opinion for the Action Area:

> USFWS, 2002. Biological Opinion (FWS-SDG-1718.4) Concerning Ewiiaapaayp Fee-To-Trust and Health Clinic Project in San Diego County, California (1-6-02-F-1718.4). Carlsbad Fish and Wildlife Office, Carlsbad, California. 32 pp (**Attachment B**).

This Biological Opinion focused on the Walker parcel, where the Tribe had proposed a health clinic on a 4.58-acre area in the center of the parcel. The Biological Opinion determined that the project would not affect coastal California gnatcatcher, least Bell's vireo, and southwestern willow flycatcher because the requisite habitat was lacking and there were sufficient setbacks from riparian habitat and Viejas Creek. The Biological Opinion did conclude that there may be potential adverse effects to Arroyo Toad critical habitat, although there was no indication of actual occupancy by Arroyo Toad. The Carlsbad Fish and Wildlife Office concluded that Viejas Creek in this location contained suitable breeding habitat for the Arroyo Toad, although the condition was degraded. The Biological Opinion determined the following conservation measures would be sufficient to protect Arroyo Toad from project effects:

- Any new road crossings would not impact wetland habitat;
- The project footprint would be at least 100 feet away from riparian habitat and Viejas Creek;
- Construction best management practices (erecting silt fencing, biological monitoring, etc.);
- Building design requirements (downcast lighting, low intensity lighting, native landscaping, stormwater treatment, etc.);



Esri, NASA, NGA, USGS, FEMA, SanGIS, California State Parks, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/ NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS

FIGURE 6

CNDDB MAPPED SPECIES DATA

- Establishing a 4.58-acre permanent conservation area that protected riparian habitat of Viejas Creek and its tributary;
- Protection of the remainder of the open space on the Walker parcel by the inclusion of this parcel in the tribe's integrated natural resource management plan; and
- Enforcement of the conservation areas and open space protection through a tribal ordinance and a Memorandum of Agreement (MOA) between the Tribe, USFWS, and BIA.

1.8.2 Tribal Ordinance and Memorandum of Agreement

The Arroyo Toad Ordinance (Ordinance No. 02-14) was approved in 2002 and codified the conservation measures prescribed in the Carlsbad Field Office (2002) Biological Opinion, including establishment of a 4.58-acre conservation area that protects riparian habitat of Viejas Creek and its tributary, protection of the remainder of the open space on the Walker parcel by inclusion in the Tribe's Integrated Natural Resource Management Plan, and a funding mechanism to maintain the conservation area in a natural state. The Ordinance also authorized the Tribe to enter into a Memorandum of Agreement (MOA) between the Tribe, USFWS, and BIA (USFWS, 2002). In June 2002, the MOA between the Tribe and USFWS and BIA was signed by all three parties. The MOA restated the conservation measures specified in the Carlsbad Field Office (2002) Biological Opinion.

Section 2 | Methods

2.1 PRELIMINARY DATA GATHERING AND RESEARCH

Prior to conducting the field survey, the following information sources were reviewed:

- Previous biological resource studies pertaining to the Action Area and vicinity;
- United States Geological Survey (USGS) 7.5 degree-minute topographic quadrangles of the Action Area and vicinity;
- Aerial photography of the Action Area;
- CNDDB, electronically updated monthly by subscription;
- SanBIOS database, County of San Diego, Land Use and Environment Group;
- A query of the California Native Plant Society's database *Inventory of Rare and Endangered Plants of California* (online edition);
- USFWS National Wetlands Inventory (NWI) mapper (USFWS, 2023a); and
- USFWS species list (IPaC Trust Resources Report) (USFWS, 2023b).

2.2 FIELD SURVEYS

Consulting biologist Dr. Geo Graening conducted a biological field assessment on September 6, 2023, and collected data on wildlife and plant species present, as well as habitat types and jurisdictional waters. Variable-intensity pedestrian surveys were performed. Fauna and flora observed were recorded in a field notebook and identified to the lowest possible taxon. Survey efforts emphasized the search for federally-listed species that had documented occurrences in the CNDDB within the vicinity of the Action Area. Habitat types occurring in the Action Area were mapped on aerial photographs and information on habitat conditions and the suitability of habitats to support listed species was also recorded. The Action Area was also assessed for the presence of potentially-jurisdictional water features, including riparian zones, isolated wetlands and vernal pools, and other biologically-sensitive aquatic habitats.

Previous biological resources surveys of the Walker parcel have also been conducted. Biologist Erin Robbins (Mooney and Associates) conducted a biological resources survey of the Walker parcel on March 6, 2001 (Mooney and Associates, 2001). The survey did not detect Arroyo toad or other listed species.

2.3 MAPPING AND OTHER ANALYSES

Locations of species' occurrences and habitat boundaries within the Action Area were recorded on color aerial photographs and then digitized to produce the habitat maps. The boundaries of potentially jurisdictional water resources within the Action Area were identified and measured in the field and similarly digitized to calculate acreage and to produce informal delineation maps. Geographic analyses were performed using geographical information system software (ArcGIS 10, ESRI, Inc.). Vegetation communities (assemblages of plant species growing in an area of similar biological and environmental factors), were classified by Vegetation Series (distinctive associations of plants, described by dominant species and particular environmental setting) using the CNPS Vegetation Classification system (Sawyer and Keeler-Wolf, 1995). Wetlands and other aquatic habitats were classified using USFWS National Wetlands Inventory Classification System for Wetland and Deepwater Habitats, or "Cowardin class" (Cowardin et al., 1979; USFWS 2007).

Informal wetland delineation methods consisted of an abbreviated, visual assessment of the three requisite wetland parameters (hydrophytic vegetation, hydric soils, hydrologic regime) defined in the U.S. Army Corps of Engineers Wetlands Delineation Manual (Environmental Laboratory, 1987). Wildlife habitats were classified according to the CDFW's California Wildlife Habitat Relationships System (CDFW, 2023a). Species' habitat requirements and life histories were identified using the following sources: Baldwin et al. (2012); CNPS (2023), Calflora (2023); CDFW (2023b); and University of California at Berkeley (2023a,b).

Section 3 | Survey Results

3.1 ENVIRONMENTAL SETTING

The physiographic setting of the Action Area is the "Peninsular Range except San Jacinto Mountains" geographic subregion, which is contained within the Southwestern California geographic subdivision of the larger California Floristic Province (Baldwin et al. 2012). The Action Area is in Climate Zone 18 – "Above and below the thermal belts in Southern California." This zone is considered an interior climate. This means that the major influence on climate is the continental air mass; the ocean determines the climate no more than 15 percent of the time. Although the climate supplies enough winter chill for some plants that need it, it is not too cold for many of the hardier subtropical plants (Sunset, 2023).

The topography is undulating and consists of an alluvial terrace bisected by Viejas Creek and several tributaries. Elevations range from approximately 660 to 705 meters above mean sea level. USDA soil survey data indicates the following soil units within the Action Area:

- GrB: Greenfield sandy loam, 2 to 5 percent slopes, well drained, alluvium derived from granite, not hydric
- FaD2: Fallbrook sandy loam, 9 to 15 percent slopes, eroded, well drained, residuum weathered from granodiorite, not hydric
- VaC: Visalia sandy loam, 5 to 9 percent slopes, well drained, alluvium derived from igneous and metamorphic rock, not hydric

The land use of the Action Area primarily consists of pasture on the Walker parcel and undeveloped open space on the Salerno parcel, separated by a rural residence and ranch on the Walker II parcel.

3.2 INVENTORY OF FLORA AND FAUNA

Animals observed during the surveys of the Action Area consist of the following:

> American crow (*Corvus brachyrhynchos*); Anna's hummingbird (*Calypte anna*); black phoebe (Sayornis nigricans); California quail (*Callipepla californica*); California scrubjay (*Aphelocoma californica*); California towhee (*Melozone crissalis*); house finch (*Carpodacus mexicanus*); mourning dove (*Zenaida macroura*); red-tailed hawk (*Buteo jamaicensis*); spotted towhee (*Pipilo maculatus*); turkey vulture (*Cathartes aura*); yellow-rumped warbler (Dendroica coronata); tadpole (undetermined); tree frog (*Pseudacris* sp.); western fence lizard (*Sceloporus occidentalis*); packrat (*Neotoma* sp.); Botta's pocket gopher (*Thomomys bottae*); coyote (scat) (*Canis latrans*); ground squirrel (*Spermophilus beecheyi*); cottontail rabbit (*Sylvilagus audubonii*); ant (Formicidae); white skipper (butterfly) (*Pontia* sp.); water strider (*Gerris* sp.); bumblebee (*Bombus* sp.); and crayfish (*Orconectes*).

Plants observed during surveys are listed in **Attachment C**.

3.3 LISTED SPECIES OBSERVED DURING SURVEYS

No federally-listed plant or animal species were observed during the survey conducted within the Action Area.

3.4 TERRESTRIAL HABITATS

The following terrestrial natural communities occur in the Action Area and are based on vegetation community types described by Oberbauer et al. (1986)(**Figure 7**). Site photos are shown in **Attachment D**.

3.4.1 Mixed Chaparral/Montane Scrub

Depending on soil type, level of disturbance (wildfire or urbanization), and sun exposure, there are several types of chaparral and scrub communities present. Montane Buckwheat Scrub is a disturbed community that transitions to chaparral. Dominant species include California buckwheat (*Eriogonum fasciculatum*) and Deerweed (*Acmispon glaber*). Mixed chaparral is defined by a predominance of broad-leaved sclerophyll shrubs, 1.5 to 3 meters tall. These thickets are occupied by Lilacs (*Ceanothus* spp.), chamise (*Adenostoma fasciculatum*), manzanita (*Arctostaphylos*), and choke cherry (*Prunus*). Other areas are dominated by scrub oaks and are defined as scrub oak chaparral. This habitat is a dense, evergreen chaparral that grows up to 20 feet tall and is dominated by scrub oak (Quercus *dumosa* or *Quercus berberidifolia*), but mountain mahogany (*Cercocarpus betuloides*) is also common. Persistent leaf litter and dense canopies preclude most understory plants. Granitic rock outcrops are also present.

3.4.2 Coast Live Oak Riparian

This habitat occurs along the Viejas Creek corridor and along the shaded ravines in the southern portion of the Action Area. Although coast live oak (*Quercus agrifolia*) is dominant, the canopy also contains Fremont cottonwood (*Populus fremontii*), eucalyptus, and willows (*Salix* spp.). The understory contains poison oak (*Toxicodendron diversilobum*), wild grape (*Vitis californicus*), periwinkle (*Vinca*) and Himalayan blackberry (*Rubus armeniacus*). In upland areas that have less stream influence, coast live oak riparian habitat transitions to Coast Live Oak Woodland habitat. This habitat is still dominated by coast live oaks, but the understory contains fewer riparian shrubs and vines and more species that can tolerate drought such as toyon (*Heteromeles arbutifolia*), sugar bush (*Rhus ovata*), elderberry (*Sambucus mexicana*), and poison oak. Openings contain annual grasses such as bromes and oats (*Bromus* and *Avena*).

3.4.3 Pasture

This habitat is non-native grassland that has been graded flat and regularly plowed and harvested for hay or has been grazed by livestock. Dominant non-native grasses are wild oat (*Avena*), various species of brome (*Bromus*), barley (*Hordeum*) and fescue (*Festuca*). Native grasses were undetectable during surveys. Herbs consisted of black mustard (*Brassica nigra*), long-beaked filaree (*Erodium botrys*), fiddleneck (*Amsinckia*), lupine (*Lupinus*), turkey mullein (*Croton setiger*), and buckwheat (*Eriogonum*).

3.4.4 Ruderal/Developed

Habitats in these areas have been replaced with roads and buildings or are highly disturbed with landscape maintenance, wildfire safety clearing, and other human activities. While some native trees are present (coast live oak, cottonwood), existing vegetation largely consists of various landscape tree and shrub cultivars, including fruit trees and ornamental palms. Granitic rock outcrops are also present.

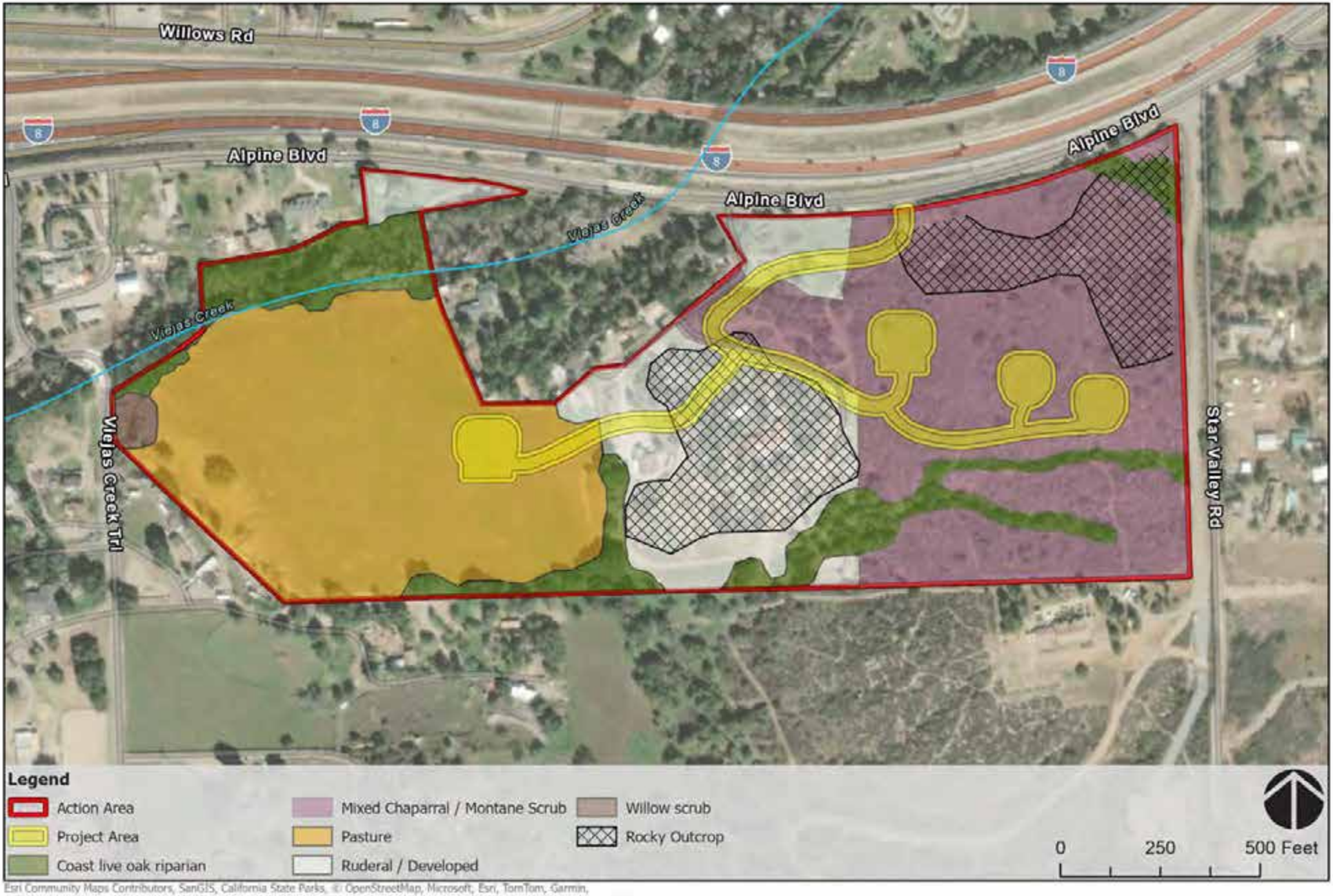


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FIGURE 7

VEGETATION COMMUNITIES

3.4.5 Willow Scrub

In areas where coast live oak does not dominate, winter-deciduous riparian thickets are present with several willow species forming the canopy (*Salix exigua, Salix lasiolepis*). Most stands are too dense to allow much understory development. This early seral type requires repeated flooding or other disturbance to prevent succession to riparian forest.

3.5 AQUATIC HABITATS

Regional mapped wetland features from the USFWS National Wetland Inventory are shown in **Figure 8**. The National Wetland Inventory maps forested and shrub wetlands associated with the Viejas Creek corridor and riverine features in the southern portion of the Action Area, which are ephemeral and intermittent tributaries of Viejas Creek. Aquatic resource mapping was also conducted during the survey. The survey determined that the Action Area contains the following water resources (**Figure 9**).

3.5.1 Channels

The Action Area has one perennial channel, Viejas Creek, which is located in the northwest corner of the Action Area. On the southern edge of the Walker and Walker II properties, there is an unnamed intermittent channel that is tributary to Viejas Creek. Various unnamed ephemeral channels flow through the Salerno parcel. Where gradients are steeper, the channels are scoured and minimal vegetation is present. In lower gradient sections and in pools, these channels contain aquatic plants such as watercress (*Nasturtium officinale*) and wetland habitats, discussed next.

There are upland swales that collect surface water runoff but are not large enough to erode into significant channels. These upland features still contain an herbaceous layer, primarily bromes, wild oats, and barley grasses and non-native herbs such as plantain (*Plantago*) and thistles (*Centaurea*, *Carduus*).

3.5.2 Wetlands

There are riverine wetlands in Viejas Creek and in the pools of the tributaries. Emergent vegetation is dominant and consists of some combination of curly dock (*Rumex crispus*), nettle (*Urtica* sp.), sedges (*Carex* spp.), giant reed (*Arundo donax*), and cattail (*Typha* sp.).

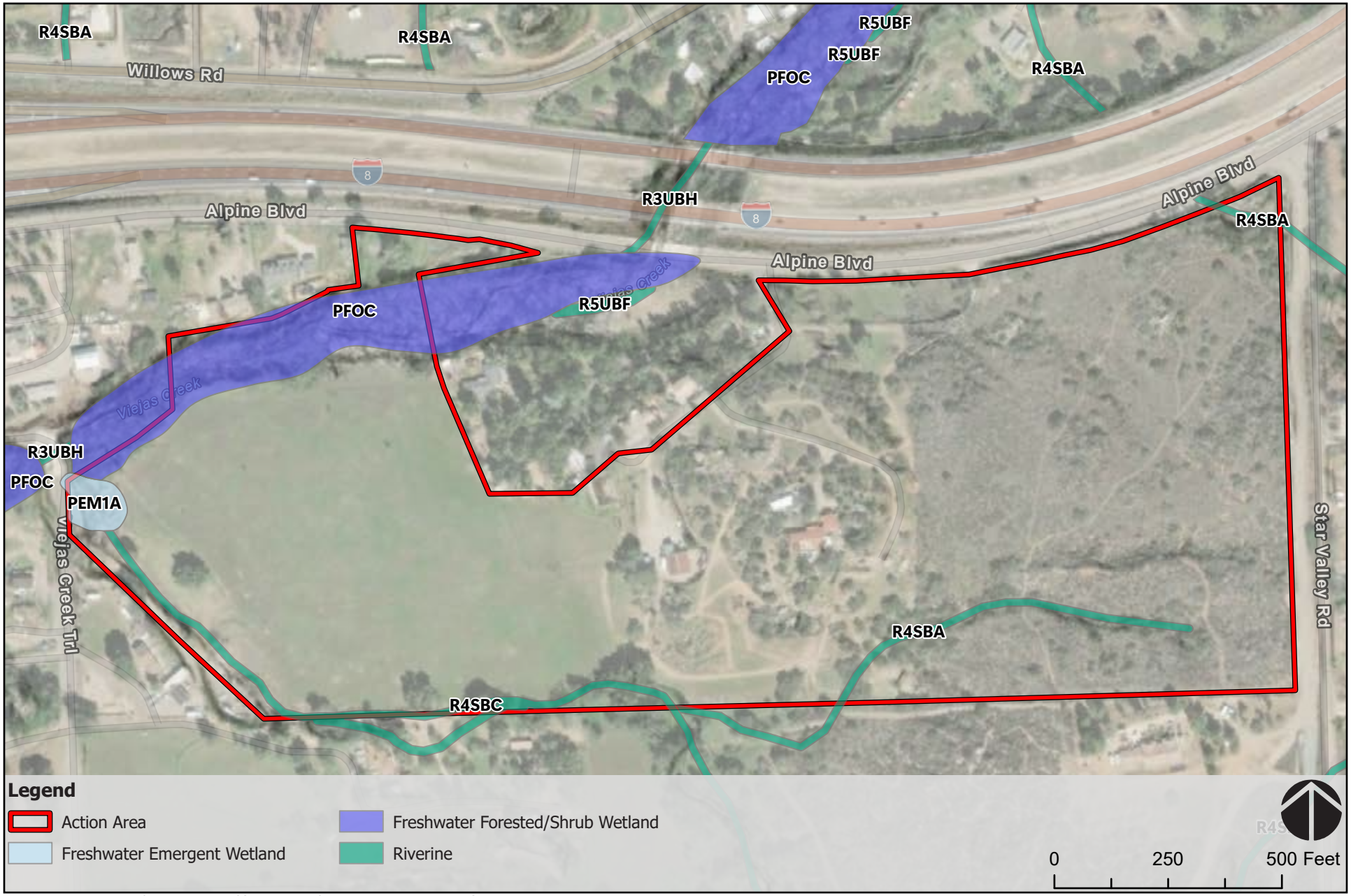

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FIGURE 8

NATIONAL WETLAND INVENTORY

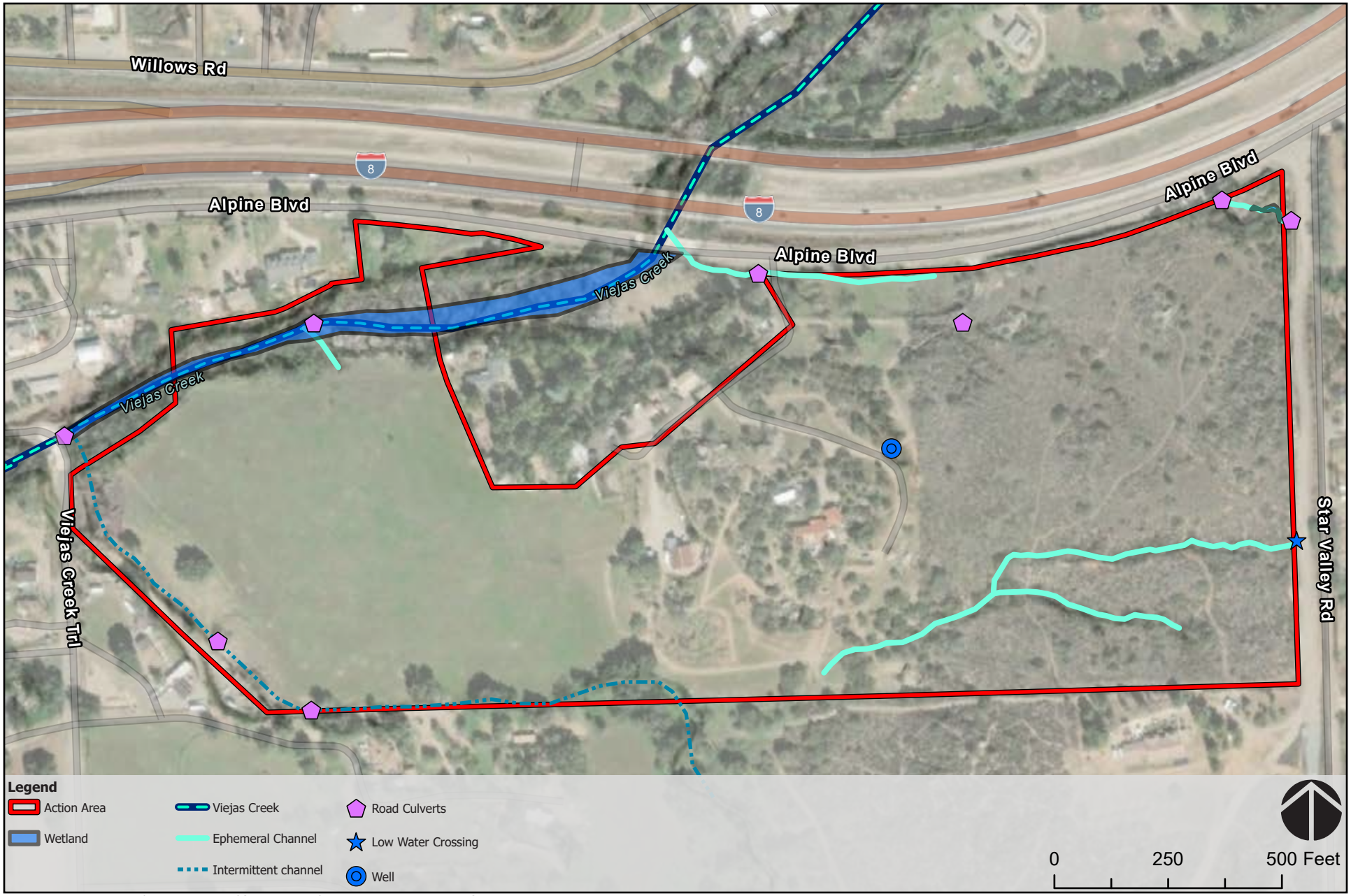

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FIGURE 9

WATER RESOURCES

Section 4 | Species Accounts

4.1 PLANTS

4.1.1 San Diego Thornmint (*Acanthomintha ilicifolia*)

Threatened

San Diego thornmint is federally listed as threatened and State-listed as endangered. Within a mile radius, there is a reported occurrence by CNDDB of San Diego thorn mint (on Viejas Mountain); there are various other occurrences of San Diego thornmint within a 5-mile radius, also on Viejas Mountain and other higher elevation areas. This plant is associated with vernal pool habitat or clay soils on mesas in chaparral and coastal sage scrub. This species was not detected during field surveys. The Action Area does not contain coastal sage scrub habitat, but it does contain chaparral habitat. However, San Diego thornmint is unlikely to occur in the Action Area because there are no vernal pools present and the soils are sandy loams, not clay-rich soils.

4.1.2 Lassics Lupine (*Lupinus constancei*)

Endangered

Lassics lupine is a flowering plant endemic to northern California. There are two known remaining populations of Lassics lupine, and both are subject to ongoing management (CDFW, 2018). Both known populations are within Humboldt and Trinity Counties within the Six Rivers National Forest. Suitable habitat for this species includes yellow pine forests on serpentine soils (Calflora, 2024). There is no potential for Lassics lupine to occur within the Action Area as suitable habitat is absent and the Action Area is outside of the known range of this species and is hundreds of miles from the remaining populations.

4.2 ANIMALS

4.2.1 Coastal California Gnatcatcher (*Polioptila californica californica*)

Threatened

The CNDDB reports coastal California gnatcatcher 3 miles to southwest of the Action Area in the Sweetwater River corridor. The coastal California gnatcatcher is strongly associated with coastal sage scrub vegetation. Coastal California gnatcatcher is unlikely to occur in the Action Area because there is no coastal sage scrub habitat present; the natural habitats present are buckwheat scrub, willow scrub, and mixed chaparral. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect coastal California gnatcatcher because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. Similarly, the Walker II parcel and the Salerno parcel do not contain coastal California gnatcatcher habitat.

4.2.2 Least Bell's Vireo (*Vireo bellii pusillus*)

Endangered

Within a mile radius, there is a reported occurrence by the SanBIOS database of Least Bell's Vireo in Viejas Creek. The CNDDB reports several occurrences of least Bell's vireo in the Sweetwater River corridor, about 3 miles to southwest of the Action Area. Least Bell's vireo inhabits dense riparian habitats dominated by willows and mule fat. The riparian habitat in the Action Area is dominated primarily by dense canopies of coast live oak and cottonwood, with willows being a minor component and no mule fat present. There is some willow scrub habitat present, but it occurs over 150 feet away from the Project Area and in a very small habitat patch. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect least Bell's vireo because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. Similarly, the Walker II parcel and the Salerno parcel do not contain the necessary riparian habitat and are very unlikely to harbor least Bell's vireo.

4.2.3 Southwestern Willow Flycatcher (*Empidonax traillii extimus*)

Endangered

There are no occurrences of southwestern willow flycatcher within a 5-mile radius in the CNDDB or SanBIOS databases. Southwestern willow flycatchers require moist microclimatic and vegetative conditions, and breed only in dense riparian vegetation near surface water or saturated soil. The birds frequently build nests in nonnative tamarisk (*Tamarix* spp.), as well as in native willow (*Salix* spp.), typically in vegetation stands of 4–7 m in height. Nesting habitat patches can range widely in size; they typically avoid narrow, linear patches less than 10 m wide (USFWS 2023b). Patches of riparian habitat are also commonly used by willow flycatchers during migration, but may be smaller in size, with shorter, sparser vegetation structure than those used for nesting. In the winter, willow flycatchers use a variety of habitats, but appear to prefer semi-open brushy areas that are near water (USFWS 2023b).

The riparian habitat in the Action Area is dominated primarily by dense canopies of coast live oak and cottonwood, with willows being a minor component and no tamarisk. There is some willow scrub habitat present, but it occurs over 150 feet away from the Project Area and in a very small habitat patch. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect southwestern willow flycatchers because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. Similarly, the Walker II parcel and the Salerno parcel do not contain the necessary riparian habitat. The few willows that are present in the northeast corner of the Salerno parcel are at least 400 feet away from proposed construction.

4.2.4 Arroyo (Arroyo Southwestern) Toad (*Anaxyrus californicus*)

Endangered

The Arroyo toad occurs primarily along coastal drainages and require shallow, slow-moving streams and riparian habitats with natural flooding regimes and that maintain areas of open, sparsely vegetated, sandy stream channels and terraces (**Attachment B**). The elevation range for most Arroyo toad populations in San Diego County is about 300 to 1,400 meters (1,000 to 4,600 feet) above mean sea level. Optimal breeding habitat consists of low gradient stream reaches that have shallow pools with fine textured substrates (i.e., sand or gravel). Upland habitats include alluvial scrub, coastal sage scrub, chaparral, grassland, and oak woodland. Arroyo toads have also been found in agricultural fields.

The CNDDB and SanBIOS databases report Arroyo Toad in Sweetwater Creek in locations 7 miles to the east and 5 miles to the south of the Action Area. The Carlsbad Field Office (2002) Biological Opinion reports Arroyo Toad to occur approximately 1 mile upstream in Viejas Creek (citing Campbell et al. 1996). Field surveys by consulting biologists (years 2000-2002, and year 2023) and by USFWS biologists (year 2002) did not detect any Arroyo Toad in the Action Area. The Carlsbad Field Office (2002) Biological Opinion concluded that within the Action Area, the areas adjacent to Viejas Creek and the unnamed intermittent channel provided suitable habitat for Arroyo Toad, although the habitat is degraded (**Figure 9**). The other streams in the Action Area (the unnamed ephemeral channels on the Salerno parcel) are low order streams (Order 1 and 2), which means that they are small headwater tributaries. The Arroyo toad is found in larger, higher-order streams (Order 3 to 6)(USFWS 2023b).

4.2.5 Western Spadefoot (*Spea hammondii*)

Proposed Threatened

Western spadefoot breeds within temporary pools between January to June and requires pooled water for breeding activity and for the tadpole life stage (CDFW, 2000; ADW, 2024). Vegetation within pooled areas is necessary for egg attachment. Adults spend the majority of the dry season underground and therefore require friable soils for burrowing. Generally, where one western spadefoot toad burrow occurs, more are present. Suitable burrowing habitat could occur within grasslands, chaparral, scrub, and oak woodlands where tree canopy coverage is not too high (CDFW, 2000; ADW, 2024). Burrows are often located away from breeding areas, with juveniles dispersing in the late spring into summer. Adults are active at night when they engage in foraging for insects and other invertebrates.

Western spadefoot has been observed within the Action Area in 2019 associated with Viejas Creek. Viejas Creek provides suitable aquatic-stage habitat for this species. The Action Area may contain suitable upland habitat, however, the quality of upland habitat within the Action Area is limited due to existing development and ongoing human disturbance, as well as arid conditions within the chaparral habitat. The intermittent and ephemeral drainages do not hold water long enough to provide suitable habitat aside from marginal dispersal habitat.

4.2.6 Southwestern Pond Turtle (*Actinemys pallida*)

Proposed Threatened

The southwestern pond turtle is known to occur within the central Coast Range of southern California south from the middle of Monterey Bay to Baja California (USFWS, 2023c). Courtship occurs between April through November within aquatic habitat. Eggs are buried within upland habitat within 500 meters of aquatic habitat where disturbance is low, typically from May to July. Hatching occurs anywhere from approximately three months to over five months from oviposition, and some hatchlings will overwinter within the nest. Southwestern pond turtles will aestivate a portion of the winter either within aquatic habitat or in upland habitat up to 500 meters from aquatic habitat. The longest overland migration of this species was measured at 5 km, noting that this dispersal occurred during mild weather conditions with short distances between water features. Southwestern pond turtles generally forage in water and, although they can forage over land, require water to swallow foraged food. Basking habitat is required.



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FIGURE 10

ARROYO TOAD CONSERVATION

Within the Action Area, this species may occur within Viejas Creek and its associated riparian habitat. The pasture habitat and ruderal/developed areas are unsuitable for nesting, aestivation, or dispersal due to high levels of human disturbance, intensive land management, and grazing. Mixed chaparral areas are similarly unsuitable as these areas are too arid to support southwestern pond turtle. The intermittent and ephemeral drainages do not hold water long enough to provide suitable habitat aside from marginal dispersal habitat. The nearest recorded occurrence of this species in relation to the Action Area is 7 miles northeast. This record identified multiple southwestern pond turtles within Pine Valley Creek in 1991.

4.2.7 Hermes Copper Butterfly (*Lycaena hermes*)

Threatened

The CNDDB reports a cluster of sightings of this butterfly 2.5 miles to the southeast of the Action Area. It is currently found in San Diego County and northwestern Baja California, Mexico. Adults are active May through July when females lay their eggs exclusively on spiny redberry bushes (*Rhamnus crocea*) found in coastal sage scrub and chaparral habitats (USFWS, 2023b). The field surveys did not detect spiny redberry bushes or the Hermes copper butterfly. The primary nectar source for adults is California buckwheat (*Eriogonum fasciculatum*). There is no coastal sage scrub habitat present in the entire Action Area; there is chaparral habitat on the Salerno parcel. The Salerno parcel does contain some adult foraging plants (California buckwheat), but the entire Action Area does not contain reproductive (larval) habitat.

4.2.8 Monarch Butterfly (*Danaus plexippus*)

Candidate

The monarch is a candidate species and not yet formerly proposed for listing. During the breeding season, monarchs lay their eggs on their obligatory milkweed host plant (primarily Asclepias species), and larvae emerge after two to five days (USFWS 2023b). Larvae develop through five molts over a period of 9 to 18 days, feeding on milkweed and sequestering toxic chemicals (cardenolides) as a defense against predators. The larva then pupates into a chrysalis before emerging 6 to 14 days later as an adult butterfly. There are multiple generations of monarchs produced during the breeding season, with most adult butterflies living approximately two to five weeks; overwintering adults enter into reproductive diapause (suspended reproduction) and live six to nine months (USFWS 2023b).

Monarchs in temperate climates, such as western North America, undergo long-distance migration, and live for an extended period of time. In the fall, monarchs begin migrating to their overwintering sites. This migration can take monarchs distances of over 3,000 km and last for over two months. In early spring (February-March), surviving monarchs break diapause and mate at the overwintering sites before dispersing. The same individuals that undertook the initial southward migration begin flying back through the breeding grounds and their offspring start the cycle of generational migration over again (USFWS 2023b). The CNDDB has no records of this species within 12 miles of Action Area. The milkweed host plant (primarily *Asclepias* spp.) is not known to be present within the Action Area and was not observed during the survey. The area containing pasture on the Walker parcel could contain nectar sources, but this area is regularly mowed and plowed and cannot sustain sufficient wildflower resources to be of use to butterflies.

Section 5 | Effects of the Action

Based on guidance provided by the ESA Section 7 Effects Determination Guidance, possible effects determinations for the Proposed Action are:

- **No effect:** The proposed action will not affect the listed species or critical habitat.
- **May affect but is not likely to adversely affect:** The proposed action will affect a listed species in a way that is discountable, insignificant, or completely beneficial. Discountable effects are extremely unlikely to occur; insignificant effects are impacts small enough that they never reach the scale where a take occurs, and completely beneficial effects are positive effects without any adverse effects to the species.
- **May affect and is likely to adversely affect:** The proposed action will either directly or indirectly, or through its interrelated and interdependent actions, adversely affect a listed species.

These guidelines were used in determining conclusions of this Biological Assessment and are discussed for the critical habitat, listed species, and migratory birds below. The project designs were overlain on the mapped habitat types to determine which habitats would be affected. Implementation of the Proposed Action would require the removal of 1.22 acres of ruderal/developed habitat, 0.81 acres of pasture habitat, and 2.55 acres of mixed chaparral/montane scrub habitat.

5.1 POTENTIAL ADVERSE EFFECTS ON CRITICAL HABITAT

There is one federally-designated critical habitat within the Action Area: Unit 18 of the Arroyo Toad Critical Habitat (**Figure 5**). The Carlsbad Field Office (2002) Biological Opinion refined the actual habitat suitability of the Action Area, and an area of suitable habitat totaling 4.58 acres was identified: this is the riparian corridor adjacent to Viejas Creek on the Walker I parcel (**Figure 10**). The remainder of the Action Area does not contain suitable habitat for Arroyo Toad.

Approximately 2.96 acres of critical habitat for Arroyo Toad would be impacted by the Proposed Action, however, of this, 0.92 acres is ruderal/developed. Therefore, the Proposed Action would impact approximately 2.04 acres of undeveloped critical habitat for Arroyo toad. This is less than critical habitat impacted (4.58 acres) by the previous project (**Section 1.3**). The Carlsbad Field Office (2002) Biological Opinion determined that development of the Action Area would not adversely affect Arroyo toad critical habitat with the implementation of conservation measures, including the preservation in perpetuity of the 4.58-acre conservation area and the implementation of best management practices and biological monitoring during construction. These measures, as applicable, would also be applied to the Proposed Action. With implementation of conservation measures, the Proposed Action May Affect, but is not Likely to Adversely Affect, designated critical habitat for Arroyo toad. Implementation of the Proposed Action would have No Effect on designated critical habitat for any other federally listed species.

5.2 POTENTIAL ADVERSE EFFECTS ON LISTED SPECIES

5.2.1 San Diego Thornmint

This species was not detected during the field survey. San Diego thornmint is associated with vernal pool habitat and with clay soils. San Diego thornmint is unlikely to occur in the Action Area because there are no vernal pools present and the soils are sandy loams, not clay-rich soils. Implementation of the Proposed Action would have No Effect on San Diego thornmint.

5.2.2 Lassics Lupine

The Action Area is outside the geographic range of this species and lacks suitable habitat. Implementation of the Proposed Action would have No Effect on Lassics lupine.

5.2.3 Coastal California Gnatcatcher

The coastal California gnatcatcher is strongly associated with coastal sage scrub vegetation. Coastal California gnatcatcher is unlikely to occur in the Action Area because there is no coastal sage scrub habitat present; the natural habitats present are buckwheat scrub, willow scrub, and mixed chaparral. This species was not detected during field surveys. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect coastal California gnatcatcher because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. The conservation measures specified for this project include a pre-construction survey for nesting birds and the implementation of avoidance measures if nesting birds are detected. Implementation of the Proposed Action would have No Effect on coastal California gnatcatcher.

5.2.4 Least Bell's Vireo

Least Bell's vireo inhabits dense riparian habitats dominated by willows and mule fat. The riparian habitat in the Action Area is dominated primarily by dense canopies of coast live oak and cottonwood, with willows being a minor component and no mule fat present. This species was not detected during field surveys. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect least Bell's vireo because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. The conservation measures specified for this project include a pre-construction survey for nesting birds and the implementation of avoidance measures if nesting birds are detected. Implementation of the Proposed Action would have No Effect on least Bell's vireo.

5.2.5 Southwestern Willow Flycatcher

Southwestern willow flycatchers build nests in riparian thickets of tamarisk and willow. The riparian habitat in the Action Area is dominated primarily by dense canopies of coast live oak and cottonwood, with willows being a minor component and no tamarisk. This species was not detected during field surveys. The Carlsbad Field Office (2002) Biological Opinion concluded that development of the Walker parcel would not affect southwestern willow flycatchers because the requisite habitat was lacking and because there were sufficient setbacks from riparian habitat and Viejas Creek. The conservation measures specified for this project include a pre-construction survey for nesting birds and the implementation of avoidance measures if nesting birds are detected. Implementation of the Proposed Action would have No Effect on Southwestern willow flycatcher.

5.2.6 Arroyo Toad

Field surveys did not detect any Arroyo Toad in the Action Area. The Carlsbad Field Office (2002) Biological Opinion reports Arroyo Toad to occur approximately 1 mile upstream in Viejas Creek and concluded that within the Action Area the areas adjacent to Viejas Creek and the unnamed intermittent channel provided suitable habitat for Arroyo Toad, although the habitat is degraded (**Figure 10**). The remainder of the Action Area does not contain suitable habitat for Arroyo Toad.

As described in **Section 5.1**, the Proposed Action would impact approximately 2.04 acres of undeveloped critical habitat for Arroyo toad, which is a lesser effect than that addressed in the 2002 Biological Opinion for the previous project (FWS-SDG-1718.4; see **Section 1.3**). Conservation measures required by the Carlsbad Field Office (2002) Biological Opinion would be implemented as part of the Proposed Action and are outlined in **Section 5.5**, including the preservation in perpetuity of 4.58 acres of suitable habitat and the implementation of best management practices and biological monitoring during construction. With implementation of conservation measures in **Section 5.5**, the Proposed Action May Affect, but is not Likely to Adversely Affect Arroyo toad.

5.2.7 Western Spadefoot

Suitable breeding habitat within the Action Area for western spadefoot consists of Viejas Creek, which would be avoided. Construction activities would occur at least 500 feet from Viejas Creek. Suitable upland habitat for western spadefoot may occur throughout the Action Area, however the quality of the habitat is limited due to ongoing disturbance associated with agricultural activities. The potential habitat loss would be offset by the preservation in perpetuity of 4.58 acres of suitable habitat along Viejas Creek as required by the 2002 Biological Opinion for the previous project and outlined in **Section 5.5**. While individual western spadefoots may occur within the Action Area, exclusionary fencing recommended in **Section 5.5** consistent with the requirements of the 2002 Biological Opinion for effects to Arroyo toad would similarly exclude western spadefoot from construction areas and would ensure take would not occur. The 2002 Biological Opinion requirements have been supplemented to include additional conservation measures for the avoidance of western spadefoot, including the requirement to conduct preconstruction surveys and the installation of exclusionary fencing during the breeding season when the species is typically more active and closer to breeding habitat (approximately December 1 through June 30 depending on seasonal rains). Initial ground clearing would be monitored by a qualified biologist to further ensure take would not occur. Finally, although construction activities have the potential to degrade nearby aquatic habitat, including Viejas Creek, general conservation measures are provided in **Section 5.5** to prevent habitat degradation outside of the area of impact. Based upon this, the Proposed Action May Affect, but is not Likely to Adversely Affect Western Spadefoot.

5.2.8 Southwestern Pond Turtle

Suitable habitat within the Action Area for southwestern pond turtle would be avoided. While individual southwestern pond turtles may occur within the Action Area, exclusionary fencing in **Section 5.5** consistent with the requirements of the 2002 Biological Opinion for effects to Arroyo toad would similarly exclude southwestern pond turtles from construction areas and would ensure take would not occur. Initial ground clearing would be monitored by a qualified biologist to further ensure take would not occur. Finally, although construction activities have the potential to degrade nearby aquatic habitat, including Viejas Creek, general conservation measures are provided in **Section 5.5** to prevent habitat degradation outside of the area of impact. Based upon this, the Proposed Action May Affect, but is not Likely to Adversely Affect Southwestern Pond Turtle.

5.2.9 Hermes Copper Butterfly

Adults lay their eggs exclusively on spiny redberry bushes found in coastal sage scrub and chaparral habitats. The field surveys did not detect spiny redberry bushes or the Hermes copper butterfly, so the Proposed Action will not adversely affect reproductive (larval) habitat. The nectar source for adults is California buckwheat. The Salerno parcel does contain some adult foraging plants (California buckwheat) in the mixed chaparral and montane scrub habitats. Implementation of the Proposed Action would require the removal of approximately 2.55 acres of mixed chaparral and montane scrub habitats on the Salerno parcel, and some California buckwheat plants would be removed. However, the Salerno parcel would still retain over 80 percent of mixed chaparral/montane scrub habitat. The retention of 80 percent of the potential foraging habitat for Hermes copper butterfly will provide ample nectar resources should this species visit the Action Area. Thus, implementation of the Proposed Action would have No Effect on Hermes copper butterfly.

5.2.10 Monarch Butterfly

The monarch requires an obligate host plant—milkweed (Asclepias)—for feeding and groves of trees for overwintering. The requisite plants/habitats are not present within the Action Area, as milkweed was not detected during the botanical survey. There is an extremely low potential for the butterfly to occur within the Action Area. Implementation of the Proposed Action would have No Effect on monarch butterfly.

5.3 INDIRECT EFFECTS AND CUMULATIVE EFFECTS

For the purposes of this assessment, indirect effects consist primarily of the off-site degradation of natural habitats, such as the increase in noise or lighting or by the discharge of sediment to receiving waterbodies during construction. The Project Area is already subject to noise and lighting impacts from the existing built environment: the rural residences, ranching and farming activities, and vehicular traffic along transportation corridors. The Proposed Action will contribute incrementally to the existing noise and light environment, but it is not expected to significantly change the natural environment, which is already somewhat urbanized.

During construction, surface water quality has the potential to be degraded from storm water transport of sediment from disturbed soils or by accidental release of hazardous materials or petroleum products from sources such as heavy equipment servicing or refueling. This is a potentially adverse effect for projects that disturb at least 1 acre of ground. However, on tribal trust land, the Tribe must enroll in the USEPA's 2022 Construction General Permit. On non-federal land, the landowner must enroll under the State Water Quality Control Board's Construction General Permit prior to the initiation of construction. In conjunction with enrollment under either of these permit programs, a Storm Water Pollution Prevention Plan, Erosion Control Plan, and a Hazardous Materials Management/Spill Response Plan must be created and implemented during construction to avoid or minimize the potential for erosion, sedimentation, or accidental release of hazardous materials. Implementation of these measures mandated by law would reduce potential construction-related impacts to water quality greatly.

For purposes of this assessment, cumulative effects consist primarily of the degradation or destruction of suitable habitat for listed species that might expand their range in the future. Especially important is the destruction or removal of aquatic habitat. However, the Project Area is devoid of natural channels and wetlands and riparian habitat. No listed species are likely to colonize the Project Area because of disturbance and human presence, as well as ground disturbance associated with ranching and hay harvest.

5.4 POTENTIAL ADVERSE EFFECTS ON MIGRATORY BIRDS

Trees, shrubs, and poles within the Action Area may provide suitable nesting and perching habitat for raptors and/or migratory birds. If construction activities are conducted during the nesting season, nesting birds/raptors could be directly impacted by removal of trees and indirectly impacted by noise, vibration, and other construction-related disturbance. Avoidance and minimization measures were identified to reduce potential impacts to migratory birds, and nesting birds in general, to a less than significant level.

5.5 AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES

5.5.1 Arroyo Toad, Western Spadefoot, and Southwestern Pond Turtle Conservation Measures

The following measures will be implemented consistent with the previously issued Biological Opinion (USFWS, 2002). These measures have been supplemented to include additional conservation measures for the avoidance of western spadefoot and southwestern pond turtle.

- A 4.58-acre conservation area, which includes no less than a 100-foot buffer from the edge of Viejas Creek and its associated riparian habitat, shall be maintained on the Walker parcel. No construction or ground-disturbing activities shall occur within the conservation area.
- Construction activities shall take place to the extent feasible from approximately December 1 through June 30 (depending on seasonal rains) during the western spadefoot breeding season when the species is typically more active and closer to breeding habitat.
- A biologist shall conduct a worker awareness training session for construction workers. The training shall identify the characteristics and habitat of Arroyo toad, western spadefoot, and southwestern pond turtle, and the importance of halting work and contacting the biologist if the species are observed within the Project Area during ground disturbance.
- A preconstruction survey for federally listed species shall be conducted immediately prior to installation of silt fencing to ensure the absence of federally listed species from the Project Area before exclusionary silt fencing is installed.
- Silt fencing shall be placed around areas of disturbance after the preconstruction survey prior to earthmoving activities. Silt fencing shall not be installed until it is confirmed by the biologist that federally listed species are absent from the Project Area. This will require that the preconstruction survey and silt fence installation are conducted during the western spadefoot breeding season when the species is typically more active and closer to breeding habitat, from approximately December 1 through June 30 (depending on seasonal rains).
- A biological monitor shall be present for initial ground clearing activities and shall halt work if a federally listed species is observed. The animal shall be allowed to leave on its own and the monitoring biologist shall maintain a halt to work until the biologist determines that recommencing work would not endanger the animal.
- If federally listed species are identified during monitoring, the biological monitor shall submit a final report to the USFWS within 30 days following construction that documents the location and number of individuals observed as well as disposition (outside of Project Area; no action necessary, inside Project Area; halt work enacted). Should a federally listed species be observed in the Project Area and should the biological monitor determine that relocation is necessary or take is possible, construction activities shall halt and formal consultation with USFWS shall occur.

Construction shall not continue until formal consultation with USFWS is concluded and any additional measures are put in place.

- Construction staging areas shall be designated and sited as far from surface waters as possible.
- Potential indirect effects to downstream water quality will be mitigated through a redundant storm water management system that aggressively filters runoff from the site.
- Selected landscaping will be chosen with the intent to minimize the need for herbicides and pesticides and when commercially reasonable, will include locally derived native species.
- Security lighting will utilize low illumination lighting directed towards both the building(s) and the ground to be reasonably consistent with the dark sky requirements of the County of San Diego.
- Parking lot lighting will utilize a low illumination motion activated sensor system that will be directed away from the creekside boundary, consistent with the dark sky requirements of San Diego.
- Employees shall strictly limit their activities and vehicles to the Proposed Action area(s), staging areas, and routes of travel.
- Equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities shall occur in designated areas. These designated areas shall be located in such a manner as to prevent any runoff from entering waters of the U.S., and shall be located within exclusionary fencing (silt fencing described above) to prevent access to the area by federally listed species.
- Sediment/grease traps shall be maintained pursuant to manufacturers' recommendations, or at a minimum cleaned and maintained at least once a year prior to the onset of winter rains.
- Preservation and management of the 4.58-acre conservation area shall be included in the Tribe's Integrated Natural Resource Management Plan for the Reservation. The Plan shall include a funding mechanism to maintain the 4.58 acres in a natural state. This may include funding for trash removal, signage, and fencing if necessary.
- The Arroyo Toad Ordinance (02-14) authorized the Tribe to enter into an MOA with the USFWS specifically related to the health clinic project that was never constructed. As the existing MOA may require modifications, the Tribe shall consult with USFWS and, if necessary, shall enter into a new or amended MOA to provide for the management of the conservation area and the legal means to ensure adequate preservation of the conservation area.
- The USFWS would be given the right to access and inspect the Action Area for compliance with mitigation during the creation/revegetation and construction phases.

5.5.2 General Conservation Measures

The following general conservation measures will be implemented:

- To protect water quality and aquatic habitats, an erosion and sediment control plan will be implemented. If the Proposed Action disturbs at least 1 acre of soil, the Tribe will enroll in the USEPA's Construction General Permit and a Storm Water Pollution Prevention Plan, Erosion Control subplan, and a Hazardous Materials Management/Spill Response subplan will be implemented. These measures will minimize the potential for erosion, sedimentation, or accidental release of hazardous materials.
- If construction activities occur during the general nesting season (February 15 to September 1), a preconstruction nest survey shall be conducted by a qualified biologist within 500 feet of proposed construction areas within 5 days of initiating ground disturbance.
- If active nests are identified, the qualified biologist shall determine a suitable avoidance buffer based on the needs of the species observed. Avoidance measures may include establishment of a buffer zone using construction fencing or the postponement of vegetation removal until after the

nesting season, or until after a qualified biologist has determined the young have fledged. Avoidance buffers may vary in size depending on habitat characteristics, project-related activities, and disturbance levels.

- Should work activity cease for 14 days or more during the nesting season, surveys shall be repeated to ensure birds and raptors have not established nests during inactivity.

Section 6 | Conclusion

This Biological Assessment is respectfully submitted to USFWS for the following determinations:

- The Proposed Action would have No Effect on San Diego thornmint as suitable habitat for this species is absent from the Action Area.
- The Proposed Action would have No Effect on Lassics lupine as suitable habitat for this species is absent from the Action Area, and the Action Area is outside of the range of this species.
- The Proposed Action would have No Effect on Coastal California gnatcatcher as suitable habitat for this species is absent from the Action Area and a buffer has been maintained from riparian habitat. This finding is consistent with the 2002 BO, and re-initiation of consultation for this species is not warranted.
- The Proposed Action would have No Effect on Least Bell's vireo as suitable habitat for this species is absent from the Action Area and a buffer has been maintained from riparian habitat. This finding is consistent with the 2002 BO, and re-initiation of consultation for this species is not warranted.
- The Proposed Action would have No Effect on southwestern willow flycatcher as suitable habitat for this species is absent from the Action Area and a buffer has been maintained from riparian habitat. This finding is consistent with the 2002 BO, and re-initiation of consultation for this species is not warranted.
- The Proposed Action would have No Effect on Hermes copper butterfly as suitable larval habitat for this species is absent from the Action Area and the majority of nectar resources would be retained should individuals visit the Action Area.
- The Proposed Action would have No Effect on Monarch butterfly as suitable habitat for this species is absent from the Action Area.
- The Proposed Action May Affect, But Is Not Likely to Adversely Affect Arroyo toad with implementation of conservation measures for Arroyo toad included in **Section 5.5**. Conditions on the site have not significantly changed since the issuance of the 2002 Biological Opinion, and project changes would not result in increased impacts to suitable Arroyo toad habitat. The Arroyo toad conservation area is unchanged and captures the totality of suitable breeding habitat within the Action Area.
- The Proposed Action May Affect, But Is Not Likely to Adversely Affect western spadefoot with implementation of conservation measures included in **Section 5.5**.
- The Proposed Action May Affect, But Is Not Likely to Adversely Affect southwestern pond turtle with implementation of conservation measures included in **Section 5.5**.

Section 7 | References

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Section 8 | Qualifications of Preparers

G.O. Graening, Ph.D., M.S.E.

G. O. Graening holds a Doctorate in Biological Sciences and a Master of Science in Biological Engineering, and is a certified arborist (International Society of Arboriculture). Dr. Graening has 26 years of experience in environmental assessment and research, including the performance of numerous wetland delineations and aquatic restoration projects. Dr. Graening also served as an adjunct professor of biology at California State University Sacramento for 10 years and was an active researcher in the area of conservation biology and groundwater ecology.

Kelli Raymond, B.S.

Ms. Raymond holds a B.S. in Animal Biology with a focus on Wildlife Ecology. She has approximately 10 years of experience collecting field data and preparing environmental assessments. Ms. Raymond has worked in several states across the U.S. performing biological resources surveys, including plant surveys and wildlife utilization monitoring. She also has experience live handling numerous wildlife species, including fish, migratory birds, and big game. Ms. Raymond is experienced in the preparation of Biological Assessments and Section 7 consultation with both the USFWS and NMFS under the federal Endangered Species Act.

Attachment A

USFWS Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Carlsbad Fish And Wildlife Office
2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385
Phone: (760) 431-9440 Fax: (760) 431-5901

In Reply Refer To: 05/31/2024 14:50:45 UTC
Project Code: 2024-0097800
Project Name: EBKI FTT

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A biological assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a biological assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a biological assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found at the Fish and Wildlife Service's Endangered Species Consultation website at:

https://www.fws.gov/service/esa-section-7-consultation

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see https://www.fws.gov/program/migratory-bird-permit/what-we-do.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see https://www.fws.gov/library/collections/threats-birds.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

OFFICIAL SPECIES LIST

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

This species list is provided by:

Carlsbad Fish And Wildlife Office
2177 Salk Avenue - Suite 250
Carlsbad, CA 92008-7385
(760) 431-9440

PROJECT SUMMARY

Project Code: 2024-0097800
Project Name: EBKI FTT
Project Type: Acquisition of Lands
Project Description: Land Acquisition and office space
Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@32.832104099999995,-116.72143351935745,14z



Counties: San Diego County, California

ENDANGERED SPECIES ACT SPECIES

There is a total of 9 threatened, endangered, or candidate species on this species list.

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

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

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

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

BIRDS

NAME	STATUS
Coastal California Gnatcatcher *Polioptila californica californica* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8178	Threatened
Least Bell's Vireo *Vireo bellii pusillus* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5945	Endangered

REPTILES

NAME	STATUS
Southwestern Pond Turtle *Actinemys pallida* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4768	Proposed Threatened

AMPHIBIANS

NAME	STATUS
Arroyo (=arroyo Southwestern) Toad *Anaxyrus californicus* There is **final** critical habitat for this species. Your location overlaps the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3762	Endangered
Western Spadefoot *Spea hammondii* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5425	Proposed Threatened

INSECTS

NAME	STATUS
Hermes Copper Butterfly *Lycaena hermes* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4379	Threatened
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

FLOWERING PLANTS

NAME	STATUS
Lassics Lupine *Lupinus constancei* Population: There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7976	Endangered
San Diego Thornmint *Acanthomintha ilicifolia*	Threatened

NAME	STATUS

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.
Species profile: https://ecos.fws.gov/ecp/species/351

CRITICAL HABITATS

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

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

IPAC USER CONTACT INFORMATION

Agency: Ewiiaapaayp Band of Kumeyaay Indians, California
Name: Kelli Raymond
Address: 5170 Golden Foothill Parkway
City: El Dorado Hills
State: CA
Zip: 95762
Email kraymond@acorn-env.com
Phone: 9162358224

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Bureau of Indian Affairs

Attachment B

Biological Opinion

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Ecological Services
Carlsbad Fish and Wildlife Office
2730 Loker Avenue West
Carlsbad, California 92008

APR 1 0 2002

In Reply Refer To: FWS-SDG-1718.4

Memorandum

To: William Allan, Bureau of Indian Affairs, Pacific Regional Office Sacramento, California

From: Assistant Field Supervisor, Carlsbad Fish and Wildlife Office

Subject: Biological Opinion Concerning Ewiiaapaayp Fee-To-Trust and Health Clinic Project in San Diego County, California (1-6-02-F-1718.4)

Dear Mr. Allan:

This document transmits the Fish and Wildlife Service's (Service) biological opinion based on our review of the proposal to bring 16.69 acres of land into federal trust for the Ewiiaapaayp Band of the Kumeyaay Indians (Tribe), and the construction of a Health Clinic located in San Diego County, California, and its effects on the federally endangered arroyo toad (*Bufo californicus*; toad) and its designated critical habitat, in accordance with section 7 of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Your letter dated January 16, 2002, requesting formal consultation was received on January 18, 2002. A letter dated November 23, 2001 also provided your determination that the project will not affect the following species: coastal California gnatcatcher (*Polioptila californica californica*; gnatcatcher), least Bell's vireo (*Vireo bellii pusillus*; vireo), and southwestern willow flycatcher (*Empidonax traillii extimus*; flycatcher). We concur with this determination; therefore, these species will not be considered further in this biological opinion.

This biological opinion is based on information provided in: 1) the *Draft Environmental Assessment, Ewiiaapaayp Band of the Kumeyaay Indians, Alpine South Health Clinic Site Fee-To-Trust Transfer* dated August, 2001; (2) the final Environmental Assessment (EA), dated November 2001; (3) the Bureau of Indian Affair's (BIA) letter requesting formal consultation and attachment concerning impacts of the proposed Fee-To-Trust Transfer and Health Clinic development project; (4) the Tribe's letter dated February 27, 2002, regarding Government-to-Government Consultation and development of a Integrated Resource Wildlife Management Plan; (5) other information available in our files. A complete administrative record of this consultation is on file at the Service's Carlsbad Field Office.

Consultation History

On April 13, 2001, we received a request for a list of species of concern from the Tribe's contracted biological consultant, Mooney and Associates. The letter included a brief project description, proposed impacts and a map illustrating the location of the project site.

On May 9, 2001, we sent Mooney and Associates a letter listing endangered, threatened and proposed species that had potential to occur near the Ewiiaapaayp Health Clinic project site.

The Service received a copy of the draft EA (dated August 22, 2001) from the BIA, on August 27, 2001. A *Draft Biological Survey and Report for the Ewiiaapaayp Indian's Health Services and Relocation Project* prepared by Mooney and Associates, dated May 2001, was included.

In a letter, dated September 21, 2001, we provided comments on the draft EA which included the following specific concerns including: 1) our determination that the project location was within critical habitats for arroyo toad; (2) recommendation for protocol surveys for arroyo toad; (3) request for additional information regarding habitat quality of Viejas Creek, and more details addressing gnatcatcher, vireo and flycatcher surveys; (4) clarification regarding the mitigation for a proposed road crossing through Viejas Creek which would impact 0.007 ac of federal jursidictional wetlands; (6) establishment of a 100-foot minimum buffer from project impacts and the creek; and (7) recommendation for mitigation of non-native grassland/ arroyo toad upland habitat impacts resulting from the construction of the health clinic and daycare facilities.

On October 2, 2001, Service biologists Bill Ostheimer and Michelle Clendenin spoke with Desidero Vela of the Ewiiaapaayp Indian Tribe regarding habitat use for species in non-native grasslands. Also, Mr. Vela inquired about the possibility of including a conservation measure for the proposed project to offset impacts to critical habitat on the reservation instead of the fee-to-trust land.

On October 29, 2001, John Barrios of BIA, called Bill Ostheimer of the Service to say that the consultant was looking into our concerns raised in our September 21, 2001 letter. The BIA was still in the process of determining whether or not this action may effect arroyo toad or critical habitat.

On November 3, 2001, Bill Ostheimer and Michelle Clendenin visited the project site. It was determined from the field visit that while the vegetative habitat of Viejas Creek was somewhat degraded, it was suitable breeding habitat for the arroyo toad due to suitable soils and the proximity of observed toads upstream of the project site.

On November 26, 2001, the Service received a revised EA, a letter in response to our comments, and Finding of No Significant Impact (FONSI) for the proposed Fee-to-Trust transfer and health clinic project. The revision of the EA contained the following components in response to our comments: 1) a habitat assessment of Viejas Creek performed by Chris Nordby, a biological consultant, determined sub-optimal habitat, and a low potential for arroyo toad occupancy for the

portion of the creek within the project boundary, (2) gnatcatcher, vireo and flycatcher surveys were not performed due to the consultant's determination for inadequate habitat for those species on site, (3) a minimum 100-foot buffer between the project footprint and the creek would be established, and no impacts to wetland habitat from the road crossing would occur, (4) mitigation for non-native grasslands was not required as part of the NEPA process.

On December 12, 2001, Bill Allan from BIA spoke with Bill Ostheimer regarding our concerns that the proposed project may affect toads and their critical habitat. Bill Allan indicated that BIA would assume arroyo toad occupancy of Viejas Creek within the project boundary due to the occurrence upstream of arroyo toad, and that formal consultation may be necessary.

We sent a letter dated, December 21, 2001, to you expressing our concern with the lack of onsite survey information for arroyo toads.

At a January 16, 2002, meeting between the consulting firm Mooney and Associates, BIA, the Ewiiaapaayp Tribe, Analytical Environmental Services and the Service, BIA verbally requested initiation of formal consultation. In addition, BIA requested an expedited formal consultation to meet a 30-day deadline for the Fee-To-Trust Transfer. During the meeting, several conservation measures were discussed in order to avoid and minimize impacts to arroyo toad and it's critical habitat.

On February 18, 2002, our office sent a memo to BIA regarding a meeting scheduled for February 25, 2002, and we recommended additional conservation measures to include: 1) culvert placement for the crossing of Viejas Creek occur outside of toad breeding habitat; and (2) clarification of the use and conservation of the remainder of the Fee-To-Trust parcel after the construction of the health clinic.

On February 25, 2002, the BIA, the Ewiiaapaayp Tribe, Analytical Environmental Services and the Service met and discussed additional minimization measures to be implemented during the construction of the health clinic and access road. These included: 1) silt fencing around the project site; (2) relocation of captured toads by a qualified biological monitor; (3) conservation and preservation of a portion of the upland habitat closest to the creek; and (4) the Tribe's intent regarding any restoration of the remainder of the parcel. The Service and Tribe agreed to receive written confirmation from the Tribe indicating language and intent for the present parcel to be included in a future Tribal Integrated Natural Resource Management Plan (Plan) for the reservation.

On February 27, 2002 the Service received a fax from the Tribe that included a revised project description. The project description included new language regarding: 1) the addition of silt fencing; (2) a biological monitor for the construction site; (3) anticipation for negotiation of the Plan with the Service within 6 months, with agreements of the Plan to be incorporated as Tribal law and executed within 12 months of the date of this Biological Opinion.

Description of the Proposed Action

The Proposed Action consists of two main components: (1) placing 16.69 acre parcel into Federal trust status, and (2) construction and operation of a health clinic and daycare facility on 4.58 acres of the site. The proposed trust parcel is located in eastern San Diego County near the community of Alpine. The site is south of Interstate 8, on Alpine Boulevard approximately 1/2 mile east of Willows Road exit (Figure 1). Topography of the project site ranges from approximately 2,150 to 2,200 feet above sea level (USGS Alpine Quadrangle 1:24,000 scale). The subject property is mostly flat with a gentle slope to the northwest.

The property is bordered by Viejas Creek to the north, undeveloped agricultural fields to the south and west, and a housing development to the east. The project site is located within the Viejas creek watershed which is a part of the Sweetwater River Recovery Unit for the arroyo toad (Service, 1999). The parcel is currently undeveloped and has a long history of agricultural farming. Viejas creek, a perennial stream that provides breeding habitat to toads, flows through the northern portion of the property, and is vegetated by coast live oak (*Quercus agrifolia)* and arroyo willow (*Salix lasiolepsis*) riparian forest. The remainder of the parcel is a dry-farmed agricultural field, which supports suitable upland habitat for toads.

The Southern Indian Health Council, Inc. (SIHC) has a need for a modern facility with additional space. The Ewiiaapaayp Tribe also needs additional administration facilities. An existing facility, the Alpine North Clinic, is located on the north side of Interstate 8 on land held in trust for the benefit of the Tribe and is comprised of three permanent buildings used to provide medical, dental, administrative, social services and outreach functions. Daycare facilities are housed in modular units on the same site. Once the proposed parcel is transferred into trust status, the proposed health clinic will be constructed to house the SIHC clinic functions, and the Alpine North Clinic will be converted to administrative space to be used by the Tribe.

The proposed clinic and daycare facilities will include approximately 26,400 [26,000 net usable] square feet (SF) of building space, a parking lot, septic system and leach field, water well, and other minor associated facilities (Figure 2). The access driveway will be a two-lane paved roadway located primarily within an existing 60-foot wide easement onto the property. The total parking required for the project is 133 spaces and the proposed parking to be provided is 200 spaces. The exterior design of the clinic buildings has been developed to complement the architecture in the surrounding community. The building will be landscaped to provide visual barriers and to make it aesthetically pleasing.

Generally, the agreements between the SIHC and the Tribe provide that the SIHC will relinquish a portion of the property currently leased by the SIHC back to the Tribe. In exchange, the Tribe will finance and construct a new consolidated (and significantly larger) SIHC clinic facility on the current leasehold. In addition, the Tribe agreed to purchase the proposed trust parcel, and contingent upon federal approval, lease that land to the SIHC for fifty years and finance the construction of the $5 million new clinic on that property. Finally, the Tribe agreed to pay SIHC annual revenues through the year 2036, which will come from the Tribe's construction and

operation of a proposed gaming facility on the portion of the current leased premises that SIHC will vacate pursuant to the agreements. Construction of the casino is not part of this proposed action.

Conservation Measures

The proposed project contains the following measures which will be implemented as part of the proposed action to minimize potential impacts to listed species and critical habitat:

1. The proposed clinic site will be rotated on the project site to maximize the buffer between the clinic site and the creek.

2. A construction staging area will be formally established and confined to an area as distant from the creek as possible.

3. Potential indirect effects to downstream water quality will be mitigated through a redundant storm water management system that aggressively filters runoff from the site.

4. All selected landscaping will be chosen with the intent to minimize the need for herbicides and pesticides and when commercially reasonable, will include locally derived native species.

5. The Tribe and its tenant(s) shall limit the construction of detached buildings from the clinic, and if any out-buildings are required, every reasonable effort shall be made to construct such buildings away from the creekside boundary of the property.

6. Security lighting for the clinic building will utilize a low illumination lighting directed towards both the building and the ground to be reasonably consistent with the dark sky requirements of the County of San Diego and the protection of the arroyo toad.

7. Parking lot lighting will utilize a low illumination motion activated sensor system that, consistent with the security needs will be directed away from the creekside boundary, consistent with the dark sky requirements of San Diego and the protection of the arroyo toad.

8. Silt fencing will be placed around the construction footprint prior to ground disturbance, and a Biological Monitor will re-locate toads that may attempt to cross or become trapped within the construction area.

9. Conservation and preservation of the remainder of the parcel will be developed in conjunction with the U.S. Fish and Wildlife Service and will be enforced through tribal regulation. The Tribe has proposed to enter into an Memorandum of Understanding (MOU) with the Service in the development and implementation of an Integrated Natural Resource Management Plan for the Reservation.

Action Area

The Service considers the action area to include the 16.69 acre Fee-To-Trust parcel and any natural habitat adjacent to this parcel one mile upstream and downstream of the proposed activities. The action area is designated critical habitat for the arroyo toad. The action area is mapped as subunit 18d Viejas Creek which is within the Sweetwater River Recovery Unit (U.S. Fish and Wildlife Service, 2001)

STATUS OF THE SPECIES

Listing Status

The Service listed the arroyo toad as endangered on December 16, 1994 (*Federal Register* 59: 3264) and a recovery plan was published in July 1999 (U.S. Fish and Wildlife Service 1999). Critical habitat was designated for the arroyo toad on February 7, 2001 (*Federal Register* 66: 9414).

Species Description and Identification

The arroyo toad is a small, dark-spotted toad of the family Bufonidae. The parotoid glands, located on the top of the head, are oval-shaped and widely separated. A light/pale area or stripe is usually present on these glands and on top of the eyes. The arroyo toad's underside is buff-colored and usually without spots (Stebbins 1985). Recently metamorphosed individuals will easily blend with the substrate and are usually found adjacent to water. At the time of listing, the arroyo toad was described as the arroyo southwestern toad (*Bufo microscaphus californicus*). Gergus (1998) recently published genetic justification for the reclassification of the arroyo toad as a full species (i.e., arroyo toad [*Bufo californicus*]).

Distribution

The current distribution of the arroyo toad in the United States is from the Salinas River Basin in Monterey County, south to the Tijuana River and Cottonwood Creek Basin along the Mexican Border. Arroyo toads are also known from a seemingly disjunct population in the Arroyo San Simeon River System, about 16 kilometers (10 miles) southeast of San Quintin, Baja California

(Gergus *et al.* 1997). Although the arroyo toad occurs principally along coastal drainages, it also has been recorded at several locations on the desert slopes of the Transverse range (Patten and Myers 1992, Jennings and Hayes 1994). The current elevational range for most arroyo toad populations in San Diego County is about 300 to 1,400 meters (1,000 to 4,600 feet), although they were historically known to extend into the lower portions of most river basins (U.S. Fish and Wildlife Service 1999).

Habitat Affinities

Arroyo toads require shallow, slow-moving streams, and riparian habitats that have natural flooding regimes which maintain areas of open, sparsely vegetated, sandy stream channels and terraces (U.S. Fish and Wildlife Service 2001). Stream order, elevation, and floodplain width are important factors in determining the size and long-term viability of a population of arroyo toads (Sweet 1992, Barto 1999, Griffin 1999). Streams with the greatest potential to support self-sustaining populations are typically of a high stream order (i.e., 3rd to 6th order), at low elevations (below 3,000 feet), with wide floodplains (Sweet 1992, Barto 1999, Griffin 1999). Optimal breeding habitat consists of low gradient stream reaches that have shallow pools with fine textured substrates (i.e., sand or gravel). Upland habitats used by arroyo toads during both the breeding and nonbreeding seasons include alluvial scrub, coastal sage scrub, chaparral, grassland, and oak woodland (Holland 1995, Griffin *et al.* 1999, U.S. Fish and Wildlife Service 2001). Arroyo toads have also been found in agricultural fields (Griffin *et al.* 1999).

Critical Habitat

Critical habitat designation included approximately 73,780 hectares (182,360 acres) of habitat in Monterey, Santa Barbara, Ventura, Los Angeles, San Bernardino, Riverside, Orange, and San Diego Counties, California. The primary constituent elements of critical habitat for the arroyo toad include: (1) rivers and streams with a hydrologic regime that supplies sufficient flowing water of suitable quality at the appropriate times to provide space, food, and cover needed to sustain eggs, tadpoles, metamorphosing juveniles, and adult breeding toads; (2) low-gradient stream segments (typically less than 4 percent) with sandy or fine gravel substrates which support the formation of shallow pools and sparsely vegetated sand and gravel bars for breeding and rearing of tadpoles and juveniles; (3) a natural flooding regime or one sufficiently corresponding to a natural regime that will periodically scour riparian vegetation, rework stream channels and terraces, and redistribute sands and sediments, such that adequate numbers and sizes of breeding pools and sufficient terrace habitats with appropriate vegetation are maintained; (4) upland habitats (particularly alluvial streamside terraces and adjacent valley bottomlands that include areas of loose soil and dependable subsurface moisture where toads can burrow underground and avoid desiccation) of sufficient width and quality to provide foraging and living areas for subadult and adult arroyo toads; (5) few or no nonnative species that prey upon or compete with

arroyo toads, or degrade their habitat; (6) stream channels and upland habitats where manmade barriers do not completely or substantially impede migration to overwintering sites, dispersal between populations, or recolonization of areas that contain suitable habitat; and (7) habitats with limited human-related disturbance.

Life History

Arroyo toad larvae feed on loose organic material such as interstitial algae, bacteria, and diatoms. They do not forage on macroscopic vegetation (Sweet 1992, Jennings and Hayes 1994). Juvenile toads rely on ants almost exclusively (U.S. Fish and Wildlife Service 1999). By the time they reach 17 to 23 mm in length, they take more beetles, along with the ants (Sweet 1992, U.S. Fish and Wildlife Service 1999). Adult toads probably consume a wide variety of insects and arthropods including ants, beetles, spiders, larvae, caterpillars, and others. Breeding typically occurs from February to July on streams with persistent water (Griffin *et al.* 1999). Female arroyo toads must feed for a minimum of approximately two months to develop the fat reserves needed to produce a clutch of eggs (Sweet 1992). Eggs are deposited and larvae develop in shallow pools with minimal current and little or no emergent vegetation. The substrate in these pools is generally sand or fine gravel overlain with silt. Arroyo toad eggs hatch in 4 to 5 days and the larvae are essentially immobile for an additional 5 to 6 days (Sweet 1992). They then begin to disperse from the pool margin into the surrounding shallow water, where they spend an average of 10 weeks (Sweet 1992). After metamorphosis (June-July), the juvenile toads remain on the bordering gravel bars until the pool no longer persists (usually from eight to twelve weeks depending on site and yearly conditions) (Sweet 1992). Most individuals become sexually mature by the following spring (Sweet 1992).

This species has been observed moving approximately 1.6 kilometers (1 mile) within a stream reach and 1 kilometer (0.6 mile) away from the stream, into native upland habitats (Holland 1995, Sweet 1992) or agricultural areas (Griffin *et al.* 1999). Movement distances may be regulated by topography and channel morphology. Griffin (1999) reported a female arroyo toad traveling more than 300 meters (948 feet) perpendicular from a stream and Holland (1998) found arroyo toads 1.08 kilometers (0.7 miles) from a water course. Arroyo toads are critically dependent on upland terraces and the marginal zones between stream channels and upland terraces during the non-breeding season, especially during periods of inactivity, generally late fall and winter (Sweet 1992).

Population Trend

Arroyo toad population numbers and densities are not currently known because insufficient data is available on the species' normal population dynamics and on habitat characteristics that correlate with density. This species was historically found in at least 22 river basins in southern

California from the upper Salinas River system in Monterey County to San Diego County and southward to the vicinity of San Quintin, Baja California, Mexico. They have been extirpated from an estimated 75 percent of their former range in the United States and they now occur primarily in small, isolated areas in the middle to upper reaches of streams.

Threats

Because arroyo toad habitats (i.e., broad, flat floodplains in southern California) are favored sites for flood control projects, agriculture, urbanization, and recreational facilities such as campgrounds and off-highway vehicle parks, many arroyo toad populations were reduced in size or extirpated due to extensive habitat loss from 1920 to 1980 (U.S. Fish and Wildlife Service 1999). The loss of habitat, coupled with habitat modifications due to the manipulation of water levels in many central and southern California streams and rivers, as well as predation from introduced aquatic species, caused arroyo toads to disappear from a large portion of their previously occupied habitat in California (Jennings and Hayes 1994). Currently, the major threats to arroyo toad populations are from stream alteration, introduction of exotic species, urban and rural development, mining, recreation, grazing, drought, wildfire, and large flood events.

Environmental Baseline

Regulations implementing the Act (50 CFR §402.02) define the environmental baseline as the past and present impacts of all Federal, State, or private actions and other human activities in the action area. Also included in the environmental baseline are the anticipated impacts of all proposed Federal projects in the action area that have undergone section 7 consultation, and the impacts of State and private actions which are contemporaneous with the consultation in progress.

Approximately 80 percent of the 16.69 acre Fee-To-Trust parcel has had an extensive history of agricultural farming from the current landowner. Surrounding land use includes agricultural fields to the south and west of the property. The eastern portion of the parcel is bordered by houses. The remainder portion of the property encompasses Viejas Creek which flows from east to the west, and is characterized by oak-riparian habitat.

The project area is within arroyo toad critical habitat map unit 18 which includes the Sweetwater River, Peterson Canyon and adjacent uplands. The unit encompasses approximately 5,065 ha (12,540 ac), of which 55 percent is on private land, 22 percent is State Park land, 13 percent on Cleveland National Forest, and 7 percent on National Wildlife Refuge Lands. Within this unit, there are 30 ha (80 ac) of the Viejas Indian Reservation along the southwest boundary, and 40 ha (100 ac) on the south side of the Sycuan Indian Reservation. Interstate 8, which bisects the

critical habitat north of the project area, is the primary transportation vector between San Diego and the nearby community of Alpine. This community is currently experiencing a surge in growth. Currently there are a number of proposed urban housing development projects along the I-8 corridor and surrounding Alpine community, west of the proposed project.
Focused surveys for the arroyo toad were not conducted specifically for this project. However, arroyo toads have been detected in Viejas Creek, approximately one mile from the project area. In addition, arroyo toads have been found in Pine Valley, the nearest watershed adjacent to Viejas Creek (Campbell, *et al* 1996).

EFFECTS OF THE ACTION

Effects of the action refer to the direct and indirect effects of an action on the species or critical habitat, together with the effects of other activities that are interrelated and interdependent with that action, that will be added to the environmental baseline. Interrelated actions are those that are part of a larger action and depend on the larger action for their justification. Interdependent actions are those that have no independent utility apart from the action under consideration. Indirect effects are those that are caused by the proposed action and are later in time, but are still reasonably certain to occur.

The Sweetwater River Basin Recovery unit is considered essential for the recovery of the arroyo toad (U.S. Fish and Wildlife Service 1999). High quality riparian and alluvial terrace habitats occur along Viejas Creek and the lower part of Sycuan Creek (U.S. Fish and Wildlife Service 2001). Extensive urbanization and creation of reservoirs have eliminated some of the historic habitat for arroyo toads (U.S. Fish and Wildlife Service 1999). However, arroyo toads have been observed on the main Sweetwater River east of Loveland Reservoir, Cuyamaca State Park (M.R. Jennings 1994), and in Viejas Valley Creek (Campbell *et al.* 1996). Continued development between the Sweetwater and Loveland Reservoirs threatens arroyo toad population (U.S. Fish and Wildlife Service 1999).

The proposed project site supports biological features (primary constituent elements), that are considered essential for the conservation of arroyo toads, including suitable upland habitat containing loose soil of sufficient width and quality to provide foraging, burrowing and dispersal areas for sub-adult and adult arroyo toads (U.S. Fish and Wildlife Service 1999). Suitable upland habitat appears to be the limiting factor in the persistence of arroyo toads in otherwise suitable breeding locations (J. Stephenson, pers. com.). This, coupled with adjacency to a stream corridor with known arroyo toad occupancy, make this an important conservation area for this species. Although no impacts to the creek are anticipated, toads may still be impacted due to the loss of the adjacent upland habitat.

Arroyo toads may be burrowed within the 4.58 acre construction area and hence will be injured and/or killed from implementation of the project. Death and injury can result from heavy equipment compacting burrowed arroyo toads. If best management practices are implemented, and the contractor stays within the project limits, take of arroyo toads will be minimized. Conservation measures will reduce the impact of these activities on arroyo toads. The construction footprint area will be fenced which should prevent arroyo toads from entering into the construction zone. Furthermore, an attempt will be made to relocate arroyo toads from the construction area by the Biological Monitor.

Night lighting of the facility and parking lot may disrupt the arroyo toad breeding activity and nocturnal foraging. Increased night lighting exposes the arroyo toads to predators. The proposed project includes conservation measures to reduce night lighting of the adjacent habitat by shielding and directing lights down and away from habitat.

The construction activities may alter the hydrology and sediment transport into Viejas Creek, impacting downstream habitat as well. As the watershed becomes more developed, urban runoff could impact water quality through the introduction of contaminates and the increased runoff volume and velocity. Incorporation of the conservation measures will minimize impacts to water quality and habitat of Viejas Creek through the use of a redundant storm water management system that aggressively filters runoff from the site. In addition, swales within the parking lot landscaped with native vegetation will provide temporary retention of water during peak storm events. Discharge points within the swale will be fitted with sediment/grease traps to trap foreign objects and grease/oil originating from the paved parking lot, however proper maintenance of these facilities is critical to ensure that contaminants do not reach the creek.

The fee-to-trust parcel has had a history of agricultural farming, including a recent discing by the current landowner. Restoration of a portion of the site by converting disturbed habitat to a native self-sustaining habitat will enhance upland habitat for arroyo toads and help offset permanent loss of 4.58 acres of the site. The 4.58 acres to be preserved is also in critical habitat which will contribute to maintaining the functions and values of this unit.

Avoidance of construction and development for the portion of parcel closest to the creek will minimize impacts to arroyo toads. In addition, the Tribe is developing and plans to implement a Tribal Integrated Natural Resource Management Plan (Plan) in coordination with the Service. The Tribe envisions the Plan promoting the preservation of toad habitat, management of native flora, and recovery of habitat, if possible. The Tribe proposes to adopt the Plan in the form of Tribal Ordinance, i.e., as Tribal law.

CUMULATIVE EFFECTS

Cumulative effects include the effects of future State, Tribal, local or private actions that are reasonably certain to occur in the action area considered in this biological opinion. Future Federal actions that are unrelated to the proposed action are not considered in this section because they require separate consultation pursuant to section 7 of the Act.

Emergency repairs following storm events along the numerous drainages in the County often never receive permits from the regulatory agencies, or the permitting happens after the fact. In addition, there is a long history of illegal fills and activities within some of the rivers, including the San Luis Rey, the San Diego River and the Sweetwater River. Some of these have resulted in enforcement actions by the Corps and the EPA, but many unauthorized activities go unresolved. These types of activities all have the potential to impact the arroyo toad either directly through mortality or indirectly due to loss or degradation of habitat.

CONCLUSION

After reviewing the current status of the arroyo toad, the environmental baseline for the action area, the effects of the proposed action, and the cumulative effects, it is the Service's biological opinion that the Fee-To-Trust Transfer and health clinic and daycare facilities, as proposed, are not likely to jeopardize the continued existence of the arroyo toad, and are not likely to destroy or adversely modify its critical habitat. We present this conclusion based on the following reasons:

1. The number of arroyo toads expected to be affected by the project is not expected to have a significant effect on the species' overall numbers, distribution or reproductive potential. Less disturbed, suitable upland habitat occurs west of the project site and downstream of Viejas Creek, therefore, the project site is not the only upland habitat available for burrowing, foraging, and dispersing. The number of arroyo toads likely to be utilizing the project site is a small proportion of the total and regional populations.

2. Impacts to the arroyo toad and it's critical habitat will be offset through preservation and enhancement of Viejas Creek and adjacent upland habitat. This will include a natural buffer area between the project site and Viejas Creek.

3. The direct and indirect impacts of this proposed action have been minimized through incorporation of project conservation measures.

4. The entire project site will be included in the development and implementation of a Tribal Integrated Resource Management and Conservation Plan.

INCIDENTAL TAKE STATEMENT

Section 9 of the Act and Federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered and threatened species, respectively, without special exemption. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, collect, or to attempt to engage in any such conduct. Harm is further defined by the Service to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering. Harass is defined by the Service as intentional or negligent actions that create the likelihood of injury to listed species to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with the terms and conditions of this Incidental Take Statement.

The measures described below are non-discretionary, and must be undertaken by the BIA so that they become binding conditions of any grant or permit issued to the applicant, as appropriate, for the exemption in section 7(o)(2) to apply. The BIA has a continuing duty to regulate the activity that is covered by this incidental take statement. If the BIA (1) fails to assume and implement the terms and conditions or (2) fails to require the applicant to adhere to the terms and conditions of this incidental take statement through enforceable terms that are added to the permit or grant document, the protective coverage of section 7(o)(2) may lapse. In order to monitor the impact of incidental take, the BIA or the applicant must report the progress of the action and its impact on the species to the Service as specified in the incidental take statement [50 CFR §402.14(I)(3)].

Amount or Extent of Take

The Service anticipates incidental take of arroyo toads will be difficult to detect for the following reasons:

1. The exact distribution and population size is difficult to estimate due to the dynamic conditions associated with their habitat. Suitable habitat may change during a given year or from year to year depending on climatic conditions, fires, or other natural or human-related events (U.S. Fish and Wildlife Service 1999). Additionally, climatic conditions and habitat suitability will influence female reproductive success and juvenile survival.

2. Except during the early juvenile stage (first 4-5 weeks), arroyo toads forage at night and burrow during the day. Nocturnal activity is usually associated with rainfall and

moderate temperatures and some nights of very high relative humidity (U.S. Fish and Wildlife Service, 1999). The arroyo toad may be found in upland habitat up to one kilometer (0.62 mi.) from a known breeding area, and dispersal movements stream corridors may be up to 8 kilometers (5 mi.) (U.S. Forest Service, 1999). Therefore, detection of arroyo toads outside of the breeding season is very difficult, with limited opportunities for anticipating when the species may be active.

However, the Service anticipates that arroyo toads within the 4.58 acre area necessary to construct a health clinic facility, parking lot, septic system and leach field, water well and access driveway will be taken as a result of this proposed action. For the purposes of this Biological Opinion we compared Viejas Creek to densities of the arroyo toad from census data from the adjacent watershed, Pine Valley Creek (Holland and Sisk, 2001). Based on this comparison, we anticipate that seven (7) arroyo toads will be subject to death, injury, or harm from the construction of the healthcare and daycare facility.

Effect of the Take

In the accompanying biological opinion, the Service determined that this level of anticipated take is not likely to result in jeopardy to the species or destruction or adverse modification of its critical habitat.

Reasonable and Prudent Measures

The Service believes the following reasonable and prudent measures are necessary and appropriate to minimize take of arroyo toads:

1. Take of arroyo toads will be avoided and minimized to the maximum extent possible by the implementation of the conservation measures, as described in the Project Description of this biological opinion.

2. On-site biological supervision/monitoring, clearance surveys, and relocation efforts shall be used to minimize the potential for injury/death to these species during construction of the health care facility.

3. Impacts to the arroyo toad will be offset through the onsite preservation of 4.58 acres of upland and riparian habitat, establishment of a buffer between the development and Viejas Creek with revegetation of habitat, and the implementation of a Integrated Natural Resource Management Plan.

Terms and Conditions

In order to be exempt from the prohibitions of section 9 of the Act, the BIA and the project proponent must comply with the following terms and conditions, which implement the reasonable and prudent measures described above and outline required reporting/monitoring requirements. These terms and conditions are non-discretionary.

1. The following terms and conditions implement reasonable and prudent measure 1:

    1.1 The Service hereby incorporates by reference the conservation measures identified in the "Project Description" of this biological opinion into this Incidental Take Statement as terms and conditions.

    1.2 Employees shall strictly limit their activities and vehicles to the proposed project area(s), staging areas, and routes of travel.

    1.3 All equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities shall occur in designated areas. These designated areas shall be located in such a manner as to prevent any runoff from entering waters of the United States, including wetlands, and shall be located within exclusionary fencing (as described in the Project Description) to prevent access to the area by arroyo toads.

    1.4 Sediment/grease traps shall be maintained pursuant to manufacturers' recommendations, or at a minimum cleaned and maintained at least once a year prior to the onset of winter rains.

    1.5 The Service would be given the right to access and inspect the project site for compliance with the proposed project description and with the terms and conditions of this biological opinion during the creation/revegetation and construction phases.

2. The following terms and conditions implement reasonable and prudent measure 2:

    2.1 Construction limits shall be fenced with silt fencing as soon as possible to allow an authorized biological monitor to conduct a minimum of six night time surveys at a minimum of once a week. Prior to initiation of surveys, the biological monitor shall provide the Service a monitoring schedule for approval. This will include a minimum of six survey nights. In addition, surveys shall be conducted the evening of any rain event. The surveys shall begin a couple of hours after

sunset and shall continue for several hours in order to conduct a thorough removal of all amphibian species within the closure. Any arroyo toads found within the silt fence shall be relocated to Viejas Creek.

2.2 The biological monitor will perform pre-construction surveys, weekly surveys of the site, and survey immediately following or during rain events during the construction of this project. The Biological Monitor shall be able to demonstrate the following experience/abilities: Experience identifying and handling all life-stages of arroyo toad in the wild. Documentation should be provided that illustrates an individual's experience with other arroyo toad biologists in identifying and handling arroyo toads. This should include the name and contact information of the person who supervised this training. BIA shall submit documentation/resume of a recommended biological monitor for this project to the Service at least 10 days prior to the need to have the Biological Monitor on site. The Service will respond, in writing, if we believe this person will be considered "qualified" for the purposes of the activities outlined in this biological opinion. The biological monitor shall be responsible for overseeing compliance with protective measures for the listed species. The monitor shall have the authority to halt all associated project activities which may be in violation of the terms and conditions of this biological opinion. The monitor is required to contact the Service within 24 hours.

2.3 The biological monitor shall submit a final Report following construction of the proposed project to be submitted to the Service that documents the location and number of toads relocated.

3. The following terms and conditions implement reasonable and prudent measure 3:

3.1 Preservation and management of the remainder of the 16.69 acre parcel shall be included in the Tribe's Integrated Natural Resource Management Plan for the Reservation. The Plan shall include a funding mechanism to maintain the 4.58 acres in a natural state. This may include funding for trash removal, signage, and fencing if necessary. The Tribe and BIA shall outline the management of this site and submit this document to the Service within 6 months from the date of this Biological Opinion.

3.2 Of the 12.11 acres of land that the Tribe has proposed to conserve through the development and implementation of an Integrated Natural Resource Management Plan, 4.58 acres, including Viejas Creek, shall be preserved in perpetuity to provide breeding and upland habitat for the arroyo toad. The legal means to

ensure adequate conservation of this site shall be identified, and approved by the Service, prior to finalization of the Fee-To-Trust authorization.

Disposition of Sick, Injured, or Dead Specimens:

The Service's Carlsbad Office is to be notified within three working days should any endangered or threatened species be found dead or injured during this project. Notification must include the date, time, and location of the carcass, and any other pertinent information. Dead animals may be marked in an appropriate manner, photographed, and left on-site. Injured animals should be transported to a qualified veterinarian. Should any treated animals survive, the Service should be contacted regarding the final disposition of the animals. The Service contact person is Michelle Clendenin and may be contacted at the letterhead address or at (760) 431-9440.

The Service retains the right to access and inspect the project site for compliance with the proposed project description and with the terms and conditions of this biological opinion. Any habitat destroyed that is not in the identified project footprint should be disclosed immediately to the Service for possible reinitiation of consultation. Compensation for such habitat loss will be requested at a minimum ratio of 5:1.

The Service estimates that seven (7) toads may be accidentally injured or killed within the 4.58 acres of the project footprint as a direct/indirect result of this proposed action. The reasonable and prudent measures, with their implementing terms and conditions, are designed to minimize the impact of incidental take that might otherwise result from the proposed action. If, during the course of the action, this level of incidental take is exceeded, such incidental take represents new information requiring reinitiation of consultation and review of the reasonable and prudent measures provided. The BIA must immediately provide an explanation of the causes of the taking and review with the Service the need for possible modification of the reasonable and prudent measures.

CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the Act directs Federal agencies to utilize their authorities to further the purposes of the Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities to minimize or avoid adverse effects of a proposed action on listed species or critical habitat, to help implement recovery plans or to develop information. The recommendations provided here do not necessarily represent complete fulfillment of the agency's 7(a)(1) responsibility for these species.

1. The Integrated Natural Resources Management Plan for the Reservation should include components which thoroughly address restoration and enhancement measures on the Reservation, specifically for impacts to arroyo toad breeding habitat.

2. BIA should assist Tribes in developing environmental education programs to promote a better understanding of the listed species and sensitive resources on Indian Reservations along the Sweetwater River and Viejas Creek.

3. BIA should assist Tribes in acquiring funding to conduct restoration and monitoring programs on the Reservation.

In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefitting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendations.

REINITIATION NOTICE

This concludes formal consultation on the action outlined in your January 16, 2002, request for initiation. As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary Federal agency involvement or control over the action has been retained (or is authorized by law) and if (1) the amount or extent of incidental take is exceeded; (2) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not considered in this opinion; (3) the agency action is subsequently modified in a manner that causes an effect to the listed species or critical habitat not considered in this opinion; or (4) a new species is listed or critical habitat designated that may be affected by the action. In instances where the amount or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation. In instances where the amount of take or extent of incidental take is exceeded, any operations causing such take must cease pending reinitiation.

Sincerely,

Nancy Gilbert
Assistant Field Supervisor

cc: Harlan Pinto, Ewiiaapaayp Band of the Kumeyaay Indians
David Zweig, Analytical Environmental Services, Sacramento, CA
Scott Aiken, US Fish and Wildlife Service, Portland, OR
Erin Robbins, Mooney and Associates, Inc., San Diego, CA



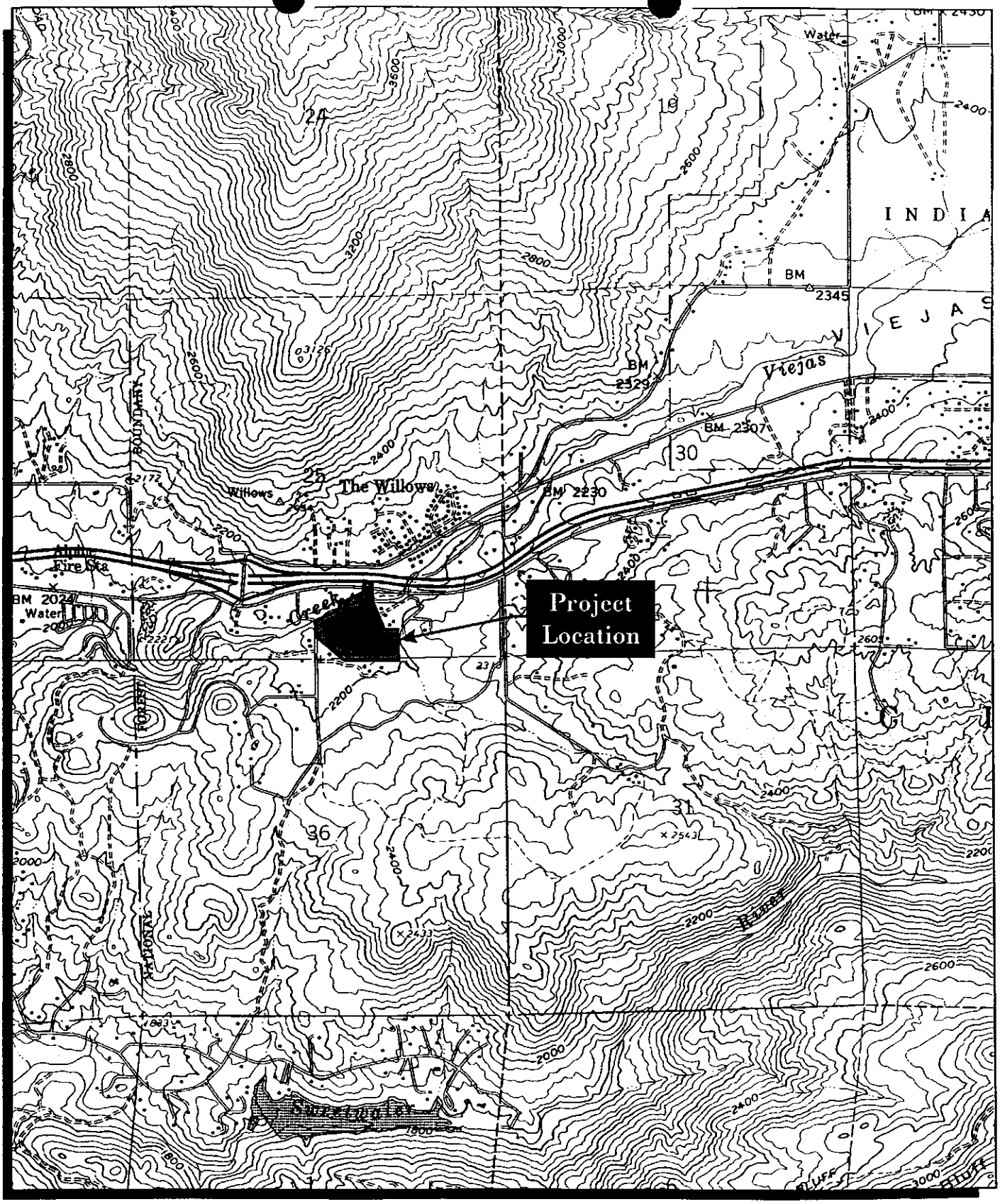
Mooney & Associates

N

0 5 10 miles

Regional Location Map

Figure



SOURCE: USGS 7.5' Quad Map (Viejas Mountain)

Mooney & Associates

N

0 1000' 2000'

Project Location

Figure 2

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Attachment C

List of Plants Detected

PLANTS OBSERVED ON THE ACTION AREA IN 2002 (MOONEY AND ASSOCIATES) AND SEPTEMBER 6, 2023 (GRAENING AND ASSOCIATES)

Common Name	Scientific Name
Deerweed	*Acmispon glaber*
Chamise	*Adenostoma fasciculatum*
Bentgrass	*Agrostis sp.*
Jersey lily	*Amaryllis belladonna*
Ragweed	*Ambrosia artemisiifolia*
Fiddleneck	*Amsinckia intermedia*
Pimpernel	*Anagallis arvense*
Eastwood manzanita	*Arctostaphylos glandulosa ssp. glandulosa*
Bigberry manzanita	*Arctostaphylos glauca*
California sage	*Artemisia californica*
California mugwort	*Artemisia douglasiana*
Giant reed	*Arundo donax*
Wild oat	*Avena barbata*
Mule fat	*Baccharis salicifolia*
Broom baccharis	*Baccharis sarothroides*
Black mustard	*Brassica nigra*
California bricklebrush	*Brickellia californica*
Ripgut brome	*Bromus diandrus*
Soft chess	*Bromus hordeaceus*
Brome	*Bromus sp.*
Italian thistle	*Carduus pycnocephalus*
Sedge	*Carex sp.*
Cup-leaved ceanothus	*Ceanothus perplexans*
Ceanothus	*Ceanothus sp.*
Maltese star thistle	*Centaurea melitensis*
Birchleaf mountain mahogany	*Cercocarpus betuloides*
Rockrose	*Cistus spp.*
Primrose	*Clarkia purpurea*
Summer holly	*Comarostaphylis diversifolia*
Field bindweed	*Convolvulus arvensis*
Dove weed	*Croton setiger*
Coyote melon	*Cucurbita palmata*
Tall flatsedge	*Cyperus eragrostis*
Jimsonweed	*Datura sp.*
Torch cactus	*Echinopsis spachiana*
Tall willowherb	*Epilobium brachycarpum*
Rabbitbrush	*Ericameria sp.*
California buckwheat	*Eriogonum fasciculatum*
Buckwheat	*Eriogonum sp.*
Scarlet monkeyflower	*Erythranthe cardinalis*
Gum tree	*Eucalyptus sp.*
Italian ryegrass	*Festuca perennis*

Common Name	Scientific Name
Edible fig	*Ficus carica*
Bedstraw	*Gallium aparine*
Everlasting	*Gnaphalium sp.*
Matchweed	*Gutierrezia californica*
Sawtooth goldenbush	*Hazardia squarrosa*
Smooth's cat ear	*Hypochaeris glabra*
Toyon	*Heteromeles arbutifolia*
Telegraph weed	*Heterotheca grandiflora*
Shortpod mustard	*Hirschfeldia incana*
Barley	*Hordeum murinum*
Coastal goldenbush	*Isocoma menziesii*
Rush	*Juncus sp.*
Prickly lettuce	*Lactuca serriola*
Lamarkia	*Lamarkia aurea*
Sand aster	*Lessingia filagninifolia*
Honeysuckle	*Lonicera subspicata*
Lotus	*Lotus hamata*
Lupine	*Lupinus*
Hyssop loosestrife	*Lythrum hyssopifolia*
Horehound	*Marrubium vulgare*
Sweetclover	*Melilotus sp.*
Mint	*Mentha sp.*
White mulberry	*Morus alba*
Watercress	*Nasturtium officinale*
Tree tobacco	*Nicotiana glauca*
Opuntia	*Opuntia sp.*
Virginia creeper	*Parthenocissus quinquefolia*
Pine	*Pinus sp.*
Common plantain	*Plantago major*
Rabbit's-foot grass	*Polypogon monspeliensis*
Fremont cottonwood	*Populus fremontii*
Choke cherry	*Prunus ilicifolia*
Coast live oak	*Quercus agrifolia*
California scrub oak	*Quercus berberidifolia*
Muller oak	*Quercus cornelius-mulleri*
Engleman oak	*Quercus englemanii*
Wild radish	*Rhaphanus sativus*
Sugar bush	*Rhus ovata*
Black locust	*Robinia pseudoacacia*
Himalayan blackberry	*Rubus armeniacus*
Blackberry	*Rubus sp.*
Curly dock	*Rumex crispus*
Sandbar willow	*Salix exigua*
Arroyo Willow	*Salix lasiolepis*
Russian thistle	*Salsola sp.*

Common Name	Scientific Name
White sage	*Salvia apiana*
Elderberry	*Sambucus mexicana*
Pepper tree	*Schinus molle*
Milk thistle	*Silybum marianum*
Sonchus	*Sonchus asper*
Creeping snowberry	*Symphoricarpos mollis*
Poison-oak	*Toxicodendron diversilobum*
Vinegar weed	*Trichostema sp.*
Cattail	*Typha sp.*
Nettle	*Urtica sp.*
Periwinkle	*Vinca major*
California grape	*Vitis californicus*
Cocklebur	*Xanthium strumarium*
Chaparral yucca	*Yucca whipplei*

Attachment D

Site Photos



View of mixed chaparral/montane scrub habitat within the Action Area.



Pastureland present in the western portion of the Action Area.



Portion of Viejas Creek crossing the Action Area.



Intermittent channel tributary to Viejas Creek.

Appendix F-2

California Native Plant Society List

CALIFORNIA NATIVE PLANT SOCIETY

CNPS Rare Plant Inventory

Search Results

41 matches found. Click on scientific name for details

Search Criteria: Quad is one of [**3211676**]

▲ SCIENTIFIC NAME	COMMON NAME	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	CA RARE PLANT RANK	GENERAL HABITATS	MICROHABITATS	LOWEST ELEVATION (M)	HIGHEST ELEVATION (M)
Acanthomintha ilicifolia	San Diego thorn-mint	annual herb	Apr-Jun	FT	CE	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools	Clay, Openings	10	960
Allium marvinii	Yucaipa onion	perennial bulbiferous herb	Apr-May	None	None	1B.2	Chaparral (clay, openings)		760	1065
Artemisia palmeri	San Diego sagewort	perennial deciduous shrub	(Feb)May-Sep	None	None	4.2	Chaparral, Coastal scrub, Riparian forest, Riparian scrub, Riparian woodland	Mesic, Sandy	5	915
Asplenium vespertinum	western spleenwort	perennial rhizomatous herb	Feb-Jun	None	None	4.2	Chaparral, Cismontane woodland, Coastal scrub	Rocky	180	1000
Astragalus douglasii var. *perstrictus*	Jacumba milk-vetch	perennial herb	Apr-Jun	None	None	1B.2	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Riparian scrub, Valley and foothill grassland	Rocky	900	1370
Astragalus oocarpus	San Diego milk-vetch	perennial herb	May-Aug	None	None	1B.2	Chaparral (openings), Cismontane woodland		305	1524
Bloomeria clevelandii	San Diego goldenstar	perennial bulbiferous herb	Apr-May	None	None	1B.1	Chaparral, Coastal scrub, Valley and foothill grassland, Vernal pools	Clay	50	465

Brodiaea orcuttii	Orcutt's brodiaea	perennial bulbiferous herb	May-Jul	None	None	1B.1	Chaparral, Cismontane woodland, Closed-cone coniferous forest, Meadows and seeps, Valley and foothill grassland, Vernal pools	Clay, Mesic	30	1692
Calochortus dunnii	Dunn's mariposa-lily	perennial bulbiferous herb	(Feb)Apr-Jun	None	CR	1B.2	Chaparral, Closed-cone coniferous forest, Valley and foothill grassland	Gabbroic (sometimes), Rocky	185	1830
Ceanothus cyaneus	Lakeside ceanothus	perennial evergreen shrub	Apr-Jun	None	None	1B.2	Chaparral, Closed-cone coniferous forest		235	755
Ceanothus foliosus var. viejasensis	Viejas Mountain ceanothus	perennial shrub	Mar-Jun	None	None	1B.2	Chaparral (gabbroic)	Gabbroic	785	1370
Ceanothus foliosus var. vineatus	Vine Hill ceanothus	perennial evergreen shrub	Mar-May	None	None	1B.1	Chaparral		45	305
Chorizanthe leptotheca	Peninsular spineflower	annual herb	May-Aug	None	None	4.2	Chaparral, Coastal scrub, Lower montane coniferous forest	Granitic	300	1900
Chorizanthe polygonoides var. longispina	long-spined spineflower	annual herb	Apr-Jul	None	None	1B.2	Chaparral, Coastal scrub, Meadows and seeps, Valley and foothill grassland, Vernal pools	Clay (often)	30	1530
Clarkia delicata	delicate clarkia	annual herb	Apr-Jun	None	None	1B.2	Chaparral, Cismontane woodland	Gabbroic (often)	235	1000
Delphinium parishii ssp. subglobosum	Colorado Desert larkspur	perennial herb	Mar-Jun	None	None	4.3	Chaparral, Cismontane woodland, Pinyon and juniper woodland, Sonoran desert scrub		600	1800
Diplacus clevelandii	Cleveland's bush monkeyflower	perennial rhizomatous herb	Apr-Jul	None	None	4.2	Chaparral, Cismontane woodland, Lower montane coniferous forest	Disturbed areas (often), Gabbroic, Openings, Rocky	450	2000
Eriogonum evanidum	vanishing wild buckwheat	annual herb	Jul-Oct	None	None	1B.1	Chaparral, Cismontane woodland, Lower montane coniferous forest, Pinyon and juniper woodland	Gravelly (sometimes), Sandy (sometimes)	1100	2225

Erythranthe diffusa	Palomar monkeyflower	annual herb	Apr-Jun	None	None	4.3	Chaparral, Lower montane coniferous forest	Gravelly (sometimes), Sandy (sometimes)	1220	1830
Geraea viscida	sticky geraea	perennial herb	(Apr)May-Jun	None	None	2B.2	Chaparral (often disturbed areas)		450	1700
Githopsis diffusa ssp. filicaulis	Mission Canyon bluecup	annual herb	Apr-Jun	None	None	3.1	Chaparral (disturbed areas, mesic)		450	700
Harpagonella palmeri	Palmer's grapplinghook	annual herb	Mar-May	None	None	4.2	Chaparral, Coastal scrub, Valley and foothill grassland	Clay, Openings	20	955
Hordeum intercedens	vernal barley	annual herb	Mar-Jun	None	None	3.2	Coastal dunes, Coastal scrub, Valley and foothill grassland (depressions, saline flats), Vernal pools		5	1000
Horkelia truncata	Ramona horkelia	perennial herb	May-Jun	None	None	1B.3	Chaparral, Cismontane woodland	Clay, Gabbroic	400	1300
Hulsea californica	San Diego sunflower	perennial herb	Apr-Jun	None	None	1B.3	Chaparral, Lower montane coniferous forest, Upper montane coniferous forest	Burned areas, Openings	915	2915
Juglans californica	Southern California black walnut	perennial deciduous tree	Mar-Aug	None	None	4.2	Chaparral, Cismontane woodland, Coastal scrub, Riparian woodland		50	900
Lepidium virginicum var. robinsonii	Robinson's pepper-grass	annual herb	Jan-Jul	None	None	4.3	Chaparral, Coastal scrub		1	885
Monardella hypoleuca ssp. lanata	felt-leaved monardella	perennial rhizomatous herb	Jun-Aug	None	None	1B.2	Chaparral, Cismontane woodland		300	1575
Nolina cismontana	chaparral nolina	perennial evergreen shrub	(Mar)May-Jul	None	None	1B.2	Chaparral, Coastal scrub	Gabbroic (sometimes), Sandstone (sometimes)	140	1275
Pickeringia montana var. tomentosa	woolly chaparral-pea	evergreen shrub	May-Aug	None	None	4.3	Chaparral	Clay, Gabbroic, Granitic	0	1700
Piperia colemanii	Coleman's rein orchid	perennial herb	Jun-Aug	None	None	4.3	Chaparral, Lower montane coniferous forest	Sandy (often)	1200	2300

Piperia cooperi	chaparral rein orchid	perennial herb	Mar-Jun	None	None	4.2	Chaparral, Cismontane woodland, Valley and foothill grassland		15	1585
Piperia leptopetala	narrow-petaled rein orchid	perennial herb	May-Jul	None	None	4.3	Cismontane woodland, Lower montane coniferous forest, Upper montane coniferous forest		380	2225
Quercus dumosa	Nuttall's scrub oak	perennial evergreen shrub	Feb-Apr(May-Aug)	None	None	1B.1	Chaparral, Closed-cone coniferous forest, Coastal scrub	Clay, Loam, Sandy	15	400
Quercus engelmannii	Engelmann oak	perennial deciduous tree	Mar-Jun	None	None	4.2	Chaparral, Cismontane woodland, Riparian woodland, Valley and foothill grassland		50	1300
Rhinotropis cornuta var. *fishiae*	Fish's milkwort	perennial deciduous shrub	May-Aug	None	None	4.3	Chaparral, Cismontane woodland, Riparian woodland		100	1000
Ribes canthariforme	Moreno currant	perennial deciduous shrub	Feb-Apr	None	None	1B.3	Chaparral, Riparian scrub		340	1200
Scutellaria bolanderi ssp. *austromontana*	southern mountains skullcap	perennial rhizomatous herb	Jun-Aug	None	None	1B.2	Chaparral, Cismontane woodland, Lower montane coniferous forest	Mesic	425	2000
Senna covesii	Cove's cassia	perennial herb	Mar-Jun(Aug)	None	None	2B.2	Sonoran desert scrub	Dry, Sandy, Slopes, Washes	225	1295
Sibaropsis hammittii	Hammitt's clay-cress	annual herb	Mar-Apr	None	None	1B.2	Chaparral (openings), Valley and foothill grassland	Clay	720	1065
Viguiera laciniata	San Diego County viguiera	perennial shrub	Feb-Jun(Aug)	None	None	4.3	Chaparral, Coastal scrub		60	750

Showing 1 to 41 of 41 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website https://www.rareplants.cnps.org [accessed 14 November 2023].

Appendix F-3

Species Table

Special-status Species Reported by CNDDB and CNPS within a 5 miles of the Development Area

Scientific Name	Common Name	Status*	General Habitat**	Microhabitat**	Potential to Occur in Development Area***
Plants					
Acanthomintha ilicifolia	San Diego thornmint	FT, CE	chaparral, coastal scrub, valley and foothill grassland, vernal pools.	endemic to clay soils of mesas & valleys. Usually on clay lenses w/in grassland or chaparral communities. 10-935m.	Low: although chaparral is present in some areas, vernal pools and clay soils are absent from site.
Allium marvinii	Yucaipa onion	CRPR 1B.2	chaparral.	in openings on clay soils. 760-1065 m.	Low: although chaparral is present in some areas, clay soils are absent from site.
Astragalus oocarpus	San Diego milk-vetch	CRPR 1B.2	chaparral, cismontane woodland, meadows.	openings in chaparral or on gravelly flats and slopes in thin oak woodland. 305-1,500m.	Moderate: suitable chaparral is present in some areas
Atriplex pacifica	south coast saltscale	CRPR 1B.2	coastal scrub, coastal bluff scrub, playas, chenopod scrub.	alkali soils. 1-500m.	None: Requisite habitats are not in Development Area. Outside of elevation range, alkali soils absent.
Bloomeria clevelandii	San Diego goldenstar	CRPR 1B.1	chaparral, coastal scrub, valley and foothill grassland, vernal pools.	mesa grasslands, scrub edges; clay soils. often on mounds between vernal pools in fine, sandy loam. 50-1,090m.	None: Requisite habitats are not in Development Area.
Brodiaea orcuttii	Orcutt's brodiaea	CRPR 1B.1	vernal pools, valley and foothill grassland, closed-cone coniferous forest, cismontane woodland, chaparral, meadows.	mesic, clay habitats; sometimes serpentine; usually in vernal pools and small drainages. 30-1,615m.	Low: although chaparral is present in some areas, clay soils absent, vernal pools absent.
Calochortus dunnii	Dunn's mariposa-lily	CRPR 1B.2	closed-cone coniferous forest, chaparral.	on gabbro or metavolcanic soils; also known from sandstone; often associated with chaparral. 375-1,830m.	Low: although chaparral is present in some areas, Gabbro and volcanic soils absent.
Ceanothus cyaneus	Lakeside ceanothus	CRPR 1B.2	closed-cone coniferous forest, chaparral.	100-1,515m.	Moderate: chaparral present in some areas.
Ceanothus foliosus var. viejasensis	Viejas Mountain ceanothus	CRPR 1B.2	rocky, gabbro-derived substrates on slopes and flats, chaparral	None listed	Low: although chaparral is present in some areas, rocky gabbro substrate not present.
Chorizanthe polygonoides var. longispina	long-spined spineflower	CRPR 1B.2	chaparral, coastal scrub, meadows, valley and foothill grassland.	gabbroic clay. 30-1,450m.	Low: although pasture and chaparral is present in some areas,. gabbroic clay soils are absent.
Clarkia delicata	delicate clarkia	CRPR 1B.2	cismontane woodland, chaparral.	235-1,000m.	Moderate: suitable chaparral is present in some areas
Ericameria palmeri var. palmeri	Palmer's goldenbush	CRPR 1B.1	coastal scrub, chaparral.	on granitic soils, on steep hillsides. Mesic sites. 30-600m.	Low: although chaparral is present in some areas, Development Area is outside of elevation range. Granitic soils absent.
Eriogonum evanidum	vanishing wild buckwheat	CRPR 1B.1	chaparral, cismontane woodland, lower montane coniferous forest, pinyon and juniper woodland.	sandy sites. 1,100-2,225 m.	Low: Chaparral present in some areas, however, soils are sandy loams, not sandy.
Geraea viscida	sticky geraea	CRPR 2B.2	chaparral.	loamy coarse sand to gravelly sand soils; often in post burned areas and in bulldozed areas. 450-1,700m.	Moderate: chaparral is present in some areas.
Horkelia truncata	Ramona horkelia	CRPR 1B.3	chaparral, cismontane woodland.	habitats in California include: mixed chaparral, vernal streams, and disturbed areas near roads. clay soil. 400-1,300m.	Low: although chaparral is present in some areas, clay soils are absent.
Monardella hypoleuca ssp. lanata	felt-leaved monardella	CRPR 1B.2	chaparral, cismontane woodland.	occurs in understory in mixed chaparral, chamise chaparral, and southern oak woodland; sandy soil. 300-1,575m.	Low: although chaparral is present in some areas, soils are sandy loams, not sandy.
Nolina cismontana	chaparral nolina	CRPR 1B.2	chaparral, coastal scrub.	primarily on sandstone and shale substrates; also known from gabbro. 140-1,275m.	Low: although chaparral is present in some areas, suitable substrate not present.
Quercus dumosa	Nuttall's scrub oak	CRPR 1B.1	closed-cone coniferous forest, chaparral, coastal scrub. More common scrub oak now.	generally on sandy soils near the coast; sometimes on clay loam. 15-640 m.	Low: although chaparral is present in some areas, suitable substrate not present.
Ribes canthariforme	Moreno currant	CRPR 1B.3	chaparral, riparian scrub.	among boulders in oak-manzanita thickets; shaded or partially shaded sites. 340-1,200 m.	Moderate: Suitable chaparral habitat present.
Salvia munzii	Munz's sage	CRPR 2B.2	coastal scrub, chaparral.	rolling hills and slopes, in rocky soil. 120-1,090m.	Low: although chaparral is present in some areas,rocky soils are absent.
Scutellaria bolanderi ssp. austromontana	southern mountains skullcap	CRPR 1B.2	chaparral, cismontane woodland, lower montane coniferous forest.	in gravelly soils on streambanks or in mesic sites in oak or pine woodland. 425-2,000m.	Low: although chaparral is present in some areas, gravelly soils are absent.
Sibaropsis hammittii	Hammitt's clay-cress	CRPR 1B.2	valley and foothill grassland, chaparral.	mesic microsites in open areas on clay soils in stipa grassland. Often surrounded by chaparral. 730-1,065m.	None: Requisite habitats are not in Development Area. Stipa grassland and clay soils absent.
Animals					
Accipiter cooperii	Cooper's hawk	CSSC	woodland, chiefly of open, interrupted or marginal type.	nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river floodplains; also, live oaks.	Low: Requisite habitats are not in Development Area, but are adjacent to Development Area within coast live oak riparian habitat.

Agelaius tricolor	tricolored blackbird	CT	highly colonial species, most numerous in central valley & vicinity. largely endemic to California.	requires open water, protected nesting substrate, & foraging area with insect prey within a few km of the colony.	Low: Requisite habitats are not in Development Area. Open water and nesting habitat absent.
Aimophila ruficeps canescens	southern California rufous-crowned sparrow	CSSC	resident in southern California coastal sage scrub and sparse mixed chaparral.	frequents relatively steep, often rocky hillsides with grass & forb patches.	Low: some areas of chaparral present, but micro-habitat requirements are not present.
Anaxyrus californicus	arroyo toad	FE	semi-arid regions near washes or intermittent streams, including valley-foothill and desert riparian, desert wash, etc.	rivers with sandy banks, willows, cottonwoods, and sycamores; loose, gravelly areas of streams in drier parts of range.	Low: Requisite habitats are not in Development Area, but are adjacent to Development Area within Viejas Creek and adjacent riparian habitat.
Anniella stebbinsi	Southern California legless lizard	CSSC	mostly found in coastal sand dunes and a variety of interior habitats, including sandy washes and alluvial fans	live mostly underground, burrowing in the loose, sandy soil.	None: Requisite habitats are not in Development Area. Suitable soils for burrows absent.
Aspidoscelis hyperythra	orange-throated whiptail	CSSC	inhabits low-elevation coastal scrub, chaparral, and valley-foothill hardwood habitats.	prefers washes & other sandy areas with patches of brush & rocks. perennial plants necessary for its major food-termites	Low: Although some areas contain chaparral, washes and sandy areas absent, Development Area is higher in elevation.
Aspidoscelis tigris stejnegeri	coastal whiptail	CSSC	found in deserts & semiarid areas with sparse vegetation and open areas. also found in woodland & riparian areas.	ground may be firm soil, sandy, or rocky.	None: Requisite habitats are not in Development Area
Chaetodipus californicus femoralis	Dulzura pocket mouse	CSSC	variety of habitats including coastal scrub, chaparral & grassland in San Diego co. Cover includes rocky gravelly areas with nearby gravel or sandy soil for burrows (CDFW, n.d.).	attracted to grass-chaparral edges.	None: Requisite habitats are not in Development Area. Suitable cover absent.
Corynorhinus townsendii	Townsend's big-eared bat	CSSC	throughout California in a wide variety of habitats. most common in mesic sites.	roosts in the open, hanging from walls & ceilings. roosting sites limiting. extremely sensitive to human disturbance.	None: Requisite habitats are not in Development Area. Site is not mesic, subject to ongoing disturbance, caves absent.
Crotalus ruber	red-diamond rattlesnake	CSSC	chaparral, woodland, grassland, & desert areas from coastal San Diego County to the eastern slopes of the mountains.	occurs in rocky areas & dense vegetation. needs rodent burrows, cracks in rocks or surface cover objects.	Moderate: requisite habitat is present in areas containing chaparral and boulders.
Eumops perotis californicus	western mastiff bat	CSSC	many open, semi-arid to arid habitats, including conifer & deciduous woodlands, coastal scrub, grasslands, chaparral etc.	roosts in crevices in cliff faces, high buildings, trees & tunnels.	Low: Requisite habitats are present in areas containing chaparral.
Euphydryas editha quino	quino checkerspot butterfly	FE	sunny openings within chaparral & coastal sage shrublands in parts of Riverside & San Diego counties.	hills & mesas near the coast. need high densities of food plants *plantago erecta, p. insularis, orthocarpus purpurescens*	Low: some areas of chaparral present, but food plants are not present.. Not located near the coast.
Falco mexicanus	prairie falcon	CSSC	inhabits dry, open terrain, either level or hilly.	breeding sites located on cliffs. forages far afield, even to marshlands and ocean shores.	Low: Foraging habitat is in Development Area, but is small and subject to human disturbance.
Lycaena hermes	Hermes copper butterfly	FT, CE	found in southern mixed chaparral & coastal sage scrub at western edge of laguna mountains.	host plant is *rhamnus crocea*. although *r. crocea* is widespread throughout the coast range, *lycaena hermes* is not.	Low: Chaparral habitat is present in some areas, larval host plant absent.
Myotis ciliolabrum	western small-footed myotis	CSSC	wide range of habitats mostly arid wooded & brushy uplands near water. seeks cover in caves, buildings, mines & crevices	prefers open stands in forests and woodlands. requires drinking water. feeds on a wide variety of small flying insects.	None: Requisite habitats are not in Development Area. Suitable cover absent.
Myotis yumanensis	Yuma myotis	CSSC	optimal habitats are open forests and woodlands with sources of water over which to feed.	distribution is closely tied to bodies of water. maternity colonies in caves, mines, buildings or crevices.	None: Requisite habitats are not in Development Area. Surface waters insufficient for foraging, open forests/woodlands absent.
Nyctinomops femorosaccus	pocketed free-tailed bat	CSSC	variety of arid areas in southern California; pine-juniper woodlands, desert scrub, palm oasis, desert wash, desert riparian	rocky areas with high cliffs.	None: Requisite habitats are not in Development Area.
Phrynosoma blainvillii	coast horned lizard	CSSC	frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	open areas for sunning, bushes for cover, patches of loose soil for burial, & abundant supply of ants & other insects.	Low: Requisite habitats are not in Development Area, except perhaps in boulder areas.
Plestiodon skiltonianus interparietalis	Coronado skink	CSSC	grassland, chaparral, pinon-juniper & juniper sage woodland, pine-oak & pine forests in coast ranges of southern calif.	prefers early successional stages or open areas. found in rocky areas close to streams & on dry hillsides.	Low: Requisite habitats are not in Development Area, except perhaps in boulder areas. Located outside of coast ranges.
Polioptila californica californica	coastal California gnatcatcher	FT	obligate, permanent resident of coastal sage scrub below 2,500 ft in southern California.	low, coastal sage scrub in arid washes, on mesas & slopes. not all areas classified as coastal sage scrub are occupied.	Low: Requisite habitats are not in Development Area
Salvadora hexalepis virgultea	coast patch-nosed snake	CSSC	brushy or shrubby vegetation in coastal southern California.	require small mammal burrows for refuge and overwintering sites.	Low: Requisite habitats are not in Development Area, except perhaps in chaparral areas
Spea hammondii	western spadefoot	CSSC	occurs primarily in grassland habitats, but can be found in valley-foothill hardwood woodlands.	vernal pools are essential for breeding and egg-laying.	None: Requisite habitats are not in Development Area
Thamnophis hammondii	two-striped gartersnake	CSSC	coastal California from vicinity of Salinas to northwest Baja California. from sea to about 7,000 ft elevation.	highly aquatic, found in or near permanent fresh water. often along streams with rocky beds and riparian growth.	None: There are no aquatic habitats in the Development Area
Vireo bellii pusillus	least Bell's vireo	FE, CE	summer resident of southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	nests placed along margins of bushes or on twigs projecting into pathways, usually willow, baccharis, mesquite.	Low: Requisite habitats are not in Development Area, but are adjacent to Development Area

*Definitions of Status Codes: FE = Federally listed as endangered; FT = Federally listed as threatened; CE = California State listed as endangered; CT = California State listed as threatened; CSSC = California species of special concern; CRPR (California Rare Plant Rank) List 1A = Plants presumed extinct in California by; CRPR List 1B = Plants designated rare, threatened or endangered in California and elsewhere; CRPR List 2A = Plants presumed extirpated in California but common elsewhere; CRPR 2B = Plants rare threatened or endangered in California, but more common elsewhere. CRPR Threat Ranks: 0.1 = seriously threatened in California; S2 = moderately threatened in California; S3 = not very threatened in California.

**Copied verbatim from CNDDB, source CDFW, n.d.: California Wildlife Habitat Relationships System, California Department of Fish and Wildlife, California Interagency Wildlife Task Group. Available online at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=2459. Accessed January 2024.

***Definitions of Occurrence Probability Rankings:

- Present: Species was observed during site visit. Or
- Present: Species has been previously documented to occur within the Study Area.
- Potential to occur: Suitable habitat present.
- Low potential to occur: Marginal habitat is present.
- Absent: No habitat onsite.

Appendix F-4

USFWS Concurrence Letter

United States Department of the Interior
U.S. FISH AND WILDLIFE SERVICE
Ecological Services
Carlsbad Fish and Wildlife Office
2177 Salk Avenue, Suite 250
Carlsbad, California 92008

In Reply Refer To:
2024-0097800_S7-I-SD

September 11, 2024
Sent Electronically

Amy Dutschke
Regional Director
Bureau of Indian Affairs - Pacific Regional Office
2800 Cottage Way
Suite W-2820
Sacramento, California 95825

Subject: Informal Section 7 Consultation and Conference Report for Ewiiaapaayp Band of Kumeyaay Indians Tribal Community and Fee-To-Trust Project, Alpine, San Diego County, California

Dear Amy Dutschke:

This is in response to your August 18, 2024, email requesting informal consultation/conference on the Ewiiaapaayp Band of Kumeyaay Indians Tribal Community and Fee-To-Trust project. You have requested our concurrence that the proposed action is not likely to adversely affect the federally endangered arroyo toad {a. southwestern t. [*Anaxyrus californicus* (*Bufo microscaphus c.*)]; arroyo toad} or its designated critical habitat, or the proposed federally threatened western spadefoot (Southern distinct population segment [*Spea hammondii*]; spadefoot) and the southwestern pond turtle (*Actinemys pallida*; pond turtle), in accordance with section 7 of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq*.).

This biological opinion is based on information provided in (1) *Biological Assessment, Ewiiaapaayp Band of Kumeyaay Indians*, *Tribal Community and Fee-to-Trust Project*, dated August 2024 (Acorn 2024); (2) correspondence compiled during discussions with the Bureau of Indian Affairs; and (3) other information available in our files. The complete project file for this consultation is maintained at the U.S. Fish and Wildlife Service's (Service) Carlsbad Fish and Wildlife Office (CFWO).

DESCRIPTION OF THE PROPOSED ACTION

The proposed action is the conveyance of approximately 48.7 acres (Project Site/Area; Action Area) by the Bureau of Indian Affairs (BIA) into Federal trust status for the benefit of the Ewiiaapaayp Band of Kumeyaay Indians (Tribe) and the development of 4.58 acres of the site with a Tribal office, library/community center, two new Tribal elder homes, and associated infrastructure. The United States would hold these lands in Federal trust for the benefit of the Tribe and to facilitate Tribal self-determination and self-governance.

The Service previously issued a biological opinion (BO) for a portion of this action area titled "Biological Opinion Concerning Ewiiaapaayp Fee-To-Trust and Health Clinic Project in San Diego County, California (1-6-02-F-1718.4)," which included a proposal to bring 16.69 acres of land into Federal trust for the Tribe and the development of 4.58 acres of arroyo toad critical habitat into a health clinic and daycare facility (Service 2002). The newly proposed project is a larger acquisition area, but the same number of development acres, and has an altered footprint shifted farther away from the riparian and critical habitat.

The project area is located south of Highway 8 between Viejas Creek Trail and Star Valley Road, east of the community of Alpine, in unincorporated San Diego County. The project area comprises three parcels totaling 48.7 acres: the Walker parcel [Assessor Parcel Number (APN) 4040802600 (16.7 acres)], the Walker 2 parcel [APN 4040901300 (13.3 acres)], and the Salerno parcel [APN 4040900700 (18.7 acres)] (Figure 1). The original project proposed in 2002 focused on the Walker parcel only.

Implementation of the proposed project would require the removal of 2.55 acres of mixed chaparral/montane scrub vegetation, 1.22 acres of ruderal/developed land, and 0.81 acre of pasture. Developments will include a 1,440 square-foot (sf) Tribal office on the Walker parcel, two 720-sf houses and a 1,440-sf library/community center on the Salerno parcel, a main access drive 24-ft wide and a secondary drive 20-ft wide, and one 16-stall parking lot each at the Tribal office and library community center. The development footprint also includes a 10-ft buffer around access drives/parking lots and a 50-ft buffer around proposed buildings. There is an existing 2,044-sf emergency Tribal center that can house up to two families or two-four tribal staff during an emergency; this proposed project includes the effects of increased visitation/occupation during such an event. Development locations can be seen in detail in Figure 2.

Conservation Measures

The following conservation measures (CM) have been incorporated into the project to avoid, minimize, and offset potential effects to federally listed and proposed species:

***General Conservation Measures* (*CM*)**

CM 1. To ensure that all avoidance and minimization measures are implemented, all activities conducted for construction and clearing will be monitored by a CFWO-approved biologist (Biologist). The Biologist will be familiar with the habitats, plants, and wildlife of the project area, and will maintain communications with project personnel to ensure that issues related to biological resources are appropriately and lawfully managed. The BIA will submit the Biologist's name, address, telephone number, and work schedule on the project to the CFWO for review and approval prior to initiating project impacts. The contract of the Biologist will allow direct communication with the CFWO at any time regarding the proposed project. The biologist will be provided with a copy of this consultation.

CM 2. To protect water quality and aquatic habitats, an erosion and sediment control plan will be implemented. The Tribe will enroll in the U.S. Environmental Protection

Agency's Construction General Permit and a Storm Water Pollution Prevention Plan, Erosion Control subplan, and a Hazardous Materials Management/Spill Response subplan will be implemented. These measures will minimize the potential for erosion, sedimentation, or accidental release of hazardous materials.

CM 3. If construction activities occur during bird nesting season (February 15 to September 1), a preconstruction nest survey shall be conducted by a qualified biologist within 500 feet (ft) of proposed construction areas within 5 days of initiating ground disturbance.

a. If active nests are identified, the qualified biologist shall determine a suitable avoidance buffer based on the needs of the species observed. Avoidance measures may include establishment of a buffer zone using construction fencing or the postponement of vegetation removal until after the nesting season, or until after a qualified biologist has determined the young have fledged. Avoidance buffers may vary in size depending on habitat characteristics, project-related activities, and disturbance levels.

b. Should work activity cease for 14 days or more during the nesting season, surveys shall be repeated to ensure birds and raptors have not established nests during inactivity.

Arroyo Toad, Spadefoot, and Pond Turtle Conservation Measures

CM 4. A 4.58-acre conservation area, which includes no less than a 100-ft buffer from the edge of Viejas Creek and its associated riparian habitat, shall be maintained on the Walker parcel. No construction or ground disturbing activities shall occur within the conservation area.

CM 5. Construction activities shall take place to the extent feasible from approximately December 1 through June 30 (depending on seasonal rains) during the spadefoot breeding season when the species is typically more active and closer to breeding habitat.

CM 6. The Biologist shall conduct a worker awareness training session for construction workers. The training shall identify the characteristics and habitat of the arroyo toad, spadefoot, and pond turtle, and the importance of halting work and contacting the Biologist if the species are observed within the Project Area during ground disturbance.

CM 7. A preconstruction survey for federally listed species shall be conducted immediately prior to installation of silt fencing to ensure the absence of federally listed species from the Project Area before exclusionary silt fencing is installed.

CM 8. Silt fencing shall be placed around areas of disturbance after the preconstruction survey and prior to earthmoving activities. Silt fencing shall not be installed until it is confirmed by the Biologist that federally listed species are absent from the

Project Area. This will require that the preconstruction survey and silt fence installation are conducted during the western spadefoot breeding season (See CM 5).

CM 9. The Biologist shall be present for initial ground clearing activities and shall halt work if a federally listed species is observed. The animal shall be allowed to leave on its own and the Biologist shall maintain a halt to work until determining that recommencing work would not endanger the animal.

CM 10. If federally listed species are identified during monitoring, the Biologist shall submit a final report to the CFWO within 30 days following construction that documents the location and number of individuals observed as well as disposition (outside of Project Area, no action necessary; inside of Project Area, halt work enacted). Should a federally listed species be observed in the Project Area, and should the Biologist determine that relocation is necessary or that take is possible, construction activities shall halt and formal consultation with CFWO shall occur. Construction shall not continue until formal consultation with CFWO is concluded and any additional measures are put in place.

CM 11. Construction staging areas shall be designated and sited as far from surface waters as possible.

CM 12. Potential indirect effects to downstream water quality will be mitigated through a redundant storm water management system that aggressively filters runoff from the site.

CM 13. Selected landscaping will be chosen with the intent to minimize the need for herbicides and pesticides and when commercially reasonable, will include locally derived native species.

CM 14. Security lighting will utilize low illumination lighting directed towards both the building(s) and the ground to be reasonably consistent with the dark sky requirements of the County of San Diego.

CM 15. Parking lot lighting will utilize a low illumination motion activated sensor system that will be directed away from the creekside boundary, consistent with the dark sky requirements of San Diego.

CM 16. Employees shall strictly limit their activities and vehicles to the Proposed Action area(s), staging areas, and routes of travel.

CM 17. Equipment maintenance, staging, and dispensing of fuel, oil, coolant, or any other such activities shall occur in designated areas. These designated areas shall be located in such a manner as to prevent any runoff from entering waters of the U.S. and shall be located within exclusionary fencing (silt fencing described above) to prevent access to the area by federally listed species.

CM 18. Sediment/grease traps shall be maintained pursuant to manufacturers' recommendations, or at a minimum cleaned and maintained at least once a year prior to the onset of winter rains.

CM 19. Preservation and management of the 4.58-acre conservation area shall be included in the Tribe's Integrated Natural Resource Management Plan (INRMP) for the Reservation. The INRMP shall include a funding mechanism to maintain the 4.58 acres in a natural state. This may include funding for trash removal, signage, and fencing if necessary.

CM 20. The Arroyo Toad Ordinance (02-14) authorized the Tribe to enter into a Memorandum of Agreement (MOA) with the Service/CFWO specifically related to the health clinic project that was never constructed. As the existing MOA may require modifications, the Tribe shall consult with Service/CFWO and, if necessary, shall enter into a new or amended MOA to provide for the management of the conservation area and the legal means to ensure adequate preservation of the conservation area.

CM 21. The CFWO would be given the right to access and inspect the Action Area for compliance with mitigation during the creation/revegetation and construction phases.

Environmental Baseline

The action area has one perennial channel, Viejas Creek, which is in the northwest corner of the action area. There is one intermittent channel that is a tributary to Viejas Creek, and small ephemeral channels flowing through (Figure 3). Landcover types include coast live oak riparian, willow scrub, mixed chaparral/montane scrub, pasture, ruderal/developed and forested and shrub wetlands adjacent to Viejas Creek. The pasture and ruderal/developed areas have a long history of disturbance and human activities.

Critical Habitat

Impacts have shifted away from the riparian area and have been reduced from the 2002 proposal to develop 4.58 acres of critical habitat. The revised project footprint includes 2.96 acres of designated critical habitat for the arroyo toad within the Sweetwater River Recovery Unit (Unit 18), including 1.27 acres of mixed chapparal/montane scrub, 0.92 acre of ruderal/developed, and 0.77 acre of pasture. Conservation measures from the 2002 BO have been implemented, including the establishment of a permanent conservation area in Viejas Creek and its tributary, consisting of 4.58 acres of arroyo toad critical habitat—established in 2002—by an MOA signed between the Tribe, the Service, and the BIA (Service 2002) and included in the Tribe's INRMP. Therefore, the 2002 BO determination of no adverse modification to critical habitat is still valid, and critical habitat will not be discussed further in this letter.

Arroyo Toad

The Service BO (2002) reported arroyo toads to occur 1 mile (mi) upstream in Viejas Creek[1]. The Recovery Plan for the arroyo toad (Service 1999) states that the status of the Viejas Creek population within the Viejas Indian Reservation is unknown, but that many sites within the drainage are affected by introduced plants and animals, and by recreational activities. Field surveys in the project area in 2000–2002 did not detect arroyo toads but determined that the habitat in Viejas Creek and the unnamed intermittent channel was suitable. Additional site visits in 2019 and 2023 detected crayfish and degraded habitat. Arroyo toad protocol surveys in 2009 for the Sunrise Powerlink did not detect the species, and noted there was suitable habitat, but heavy recreational use (Former 2009). The second and third closest known occurrences of arroyo toads are 5 mi to the south and 7 mi to the east of the action area within the Sweetwater River.

Pond Turtle

The upland pasture habitat and ruderal/developed areas are unsuitable for pond turtle nesting, aestivation, or dispersal due to high levels of human disturbance and intensive land management. The intermittent and ephemeral drainages do not hold water long enough to provide suitable habitat for pond turtles aside from marginal dispersal habitat. It is possible for pond turtles to occur in Viejas Creek, although the presence of invasive species and heavy recreational use makes their presence unlikely. The nearest historical observation of pond turtles to this location is over 7 mi northeast, while the longest observed overland migration of this species is 3 mi (Holland 1994).

Spadefoot

A 2009 California Natural Diversity Database record exists representing two observations of spadefoot on separate occasions near Viejas Creek and noting a heavy infestation of crayfish (Former 2009). Viejas Creek may provide suitable aquatic-stage habitat for this species, but the quality of suitable upland habitat within the action area is limited due to existing development and ongoing disturbance as well as arid conditions within the chaparral habitat. The intermittent and ephemeral drainages on site do not hold water long enough to provide suitable habitat aside from marginal dispersal habitat. A spadefoot telemetry study by Halstead *et al.* (2021) in coastal habitat in Orange County, California, reported the mean maximum distance from breeding habitat to be 203 ft (minimum=59 ft, maximum=1,972 ft). Construction activities will occur at least 500 ft from Viejas Creek and occur during the breeding season when spadefoots are more likely to be away from any potential aestivation sites in the uplands and closer to the creek (CM 5).

Effects

Project construction will permanently impact approximately 4.58 acres, including 2.55 acres of mixed chapparal/montane scrub, 1.22 acres of ruderal/developed, and 0.81 acre of pasture.

[1] The Service BO (2002) cited Campbell *et al*. (1996), which listed in an occurrence table "Viejas Valley Creek, N. of Hwy 8", attributing observations to Samuel Sweet, but no details on population size, date, landownership, or other comments were given.

Project construction could directly impact arroyo toad, spadefoot, and pond turtle if found in the project site or adjacent riparian wetland habitat. No riparian wetland habitat will be impacted, and vegetation on the project site is not expected to support more than minimal foraging/dispersal habitat for pond turtle or arroyo toad. Multiple surveys for arroyo toad over the past ~25 years in this area have turned up negative, and pond turtles have never been documented to occur here. Although spadefoot have been observed in the vicinity of the project site, the observation was approximately 15 years ago and was in Viejas Creek. Any spadefoots that may be within the action area are most likely to be in and adjacent to the riparian habitat of Viejas Creek for aestivation and dispersal, and not in the arid and disturbed areas of the project footprint. Furthermore, timing of construction activities will be during the breeding season, when this species would require water for breeding, which is located outside of the project footprint (CM 5). The applicant will also install exclusionary silt fencing around areas of disturbance immediately after preconstruction surveys and prior to earthmoving activities to ensure that protected species are not present in the Project Area and do not enter the impact area once construction has been initiated (CM 7, CM 8). Finally, should a federally listed species be observed in the Project Area, and should the Biologist determine that relocation is necessary or take is possible, construction activities shall halt and formal consultation with CFWO shall occur (CM 10).

Conclusion

Based on a review of the avoidance and minimization measures to be implemented, the best available data, and the Biological Assessment provided by Acorn Environmental, we concur that the proposed project is not likely to adversely affect the arroyo toad, pond turtle, or spadefoot. Therefore, the interagency consultation and conference requirements of section 7 of the Act have been satisfied. Although our concurrence ends informal consultation and conference, obligations under section 7 of the Act shall be reconsidered if (1) new information reveals effects of the agency action that may affect listed species or critical habitat in a manner or to an extent not previously considered, (2) this action is subsequently modified in a manner that was not considered in this assessment, or (3) a new species is listed or critical habitat designated that may be affected by the action.

We appreciate your coordination on the above project. If you have any questions regarding this letter, please contact James Molden[2] at 760-431-9440, extension 348.

Sincerely,

for Jonathan Snyder
Assistant Field Supervisor

[2] james_molden@fws.gov

LITERATURE CITED

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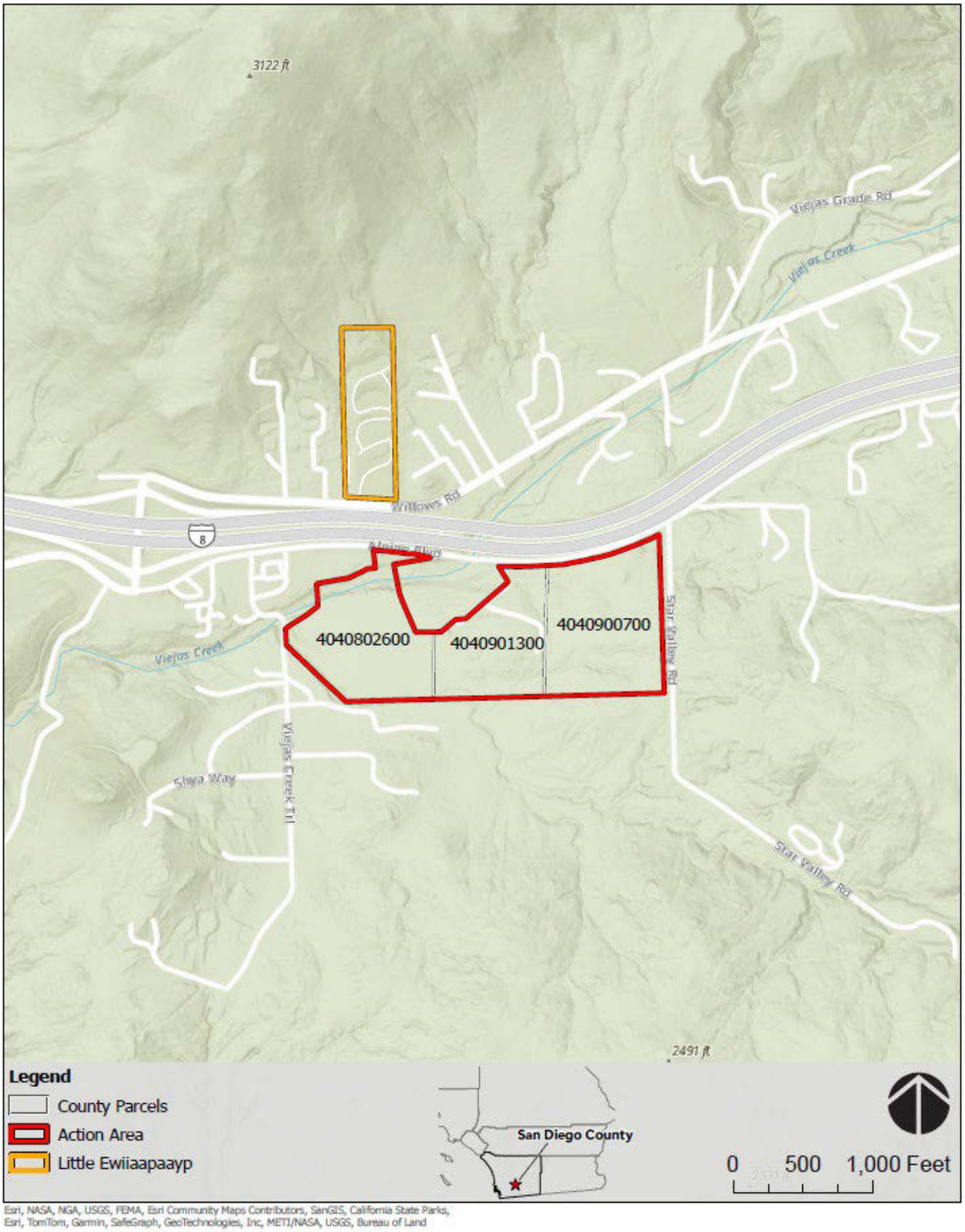

Figure 1. Parcels within the project area.



Source: Maxar Imagery (Feb. 2022)

Figure 2. Project area including the arroyo toad conservation area and proposed development areas.

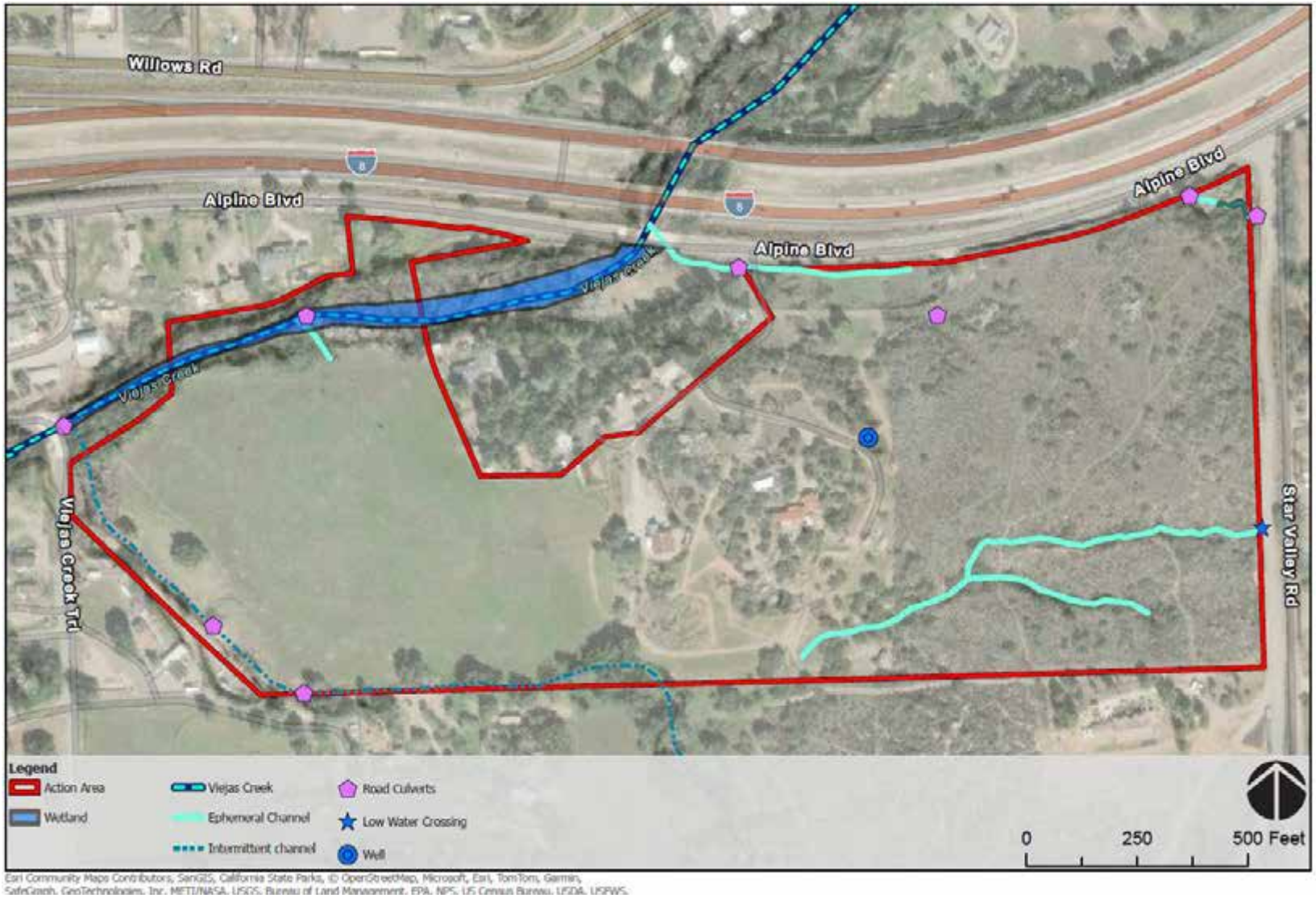

Figure 3. Water features within the project area.

Appendix G

Cultural Resources Study (Confidential)

Appendix H

Phase I Environmental Site Assessment

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Walker/Walker II/Salerno Properties
APNs 404-090-13, 404-080-26, 404-090-07
San Diego County, California



Prepared for: Ewiiaapaayp Band of Kumeyaay Indians

December 14, 2023

acorn environmental

Executive Summary

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared by Acorn Environmental in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and within the scope and limitations of the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21 for an approximately 48.7-acre property (Walker/Salerno or Subject Property) located in rural San Diego County, California (identified as San Diego County Assessor's Parcel Numbers (APNs) 404-090-13-00, 404-080-26-00, and 404-090-07-00). The three parcels within the Subject Property are currently owned in fee by the Ewiiaapaayp Band of Kumeyaay Indians (Tribe). The Subject Property is shown relative to surrounding physical features in **Figures 1, 2,** and **3**.

This Phase I ESA was requested for use by the BIA in its consideration of a fee-to-trust application submitted by the Tribe. A majority of the Subject Property is undeveloped open space, with a small portion of the center of the Subject Property developed with rural residential structures (single family dwelling unit and secondary mobile dwelling unit), and several outbuildings, access drives, and associated infrastructure. The western portion of the Subject Property was historically used for agricultural production. Owner/User-Provided information and historical physical setting resources reviewed indicated the Subject Property was historically used for rural residential, agricultural, and limited ranching purposes.

No environmental liens or hazardous materials based active use limitations (AULs) were found in association with the Subject Property. No indication or evidence of previous, ongoing or the material threat of a hazardous material or petroleum hydrocarbon release was detected during this Phase I ESA investigation. The Subject Property was not listed on environmental databases queried.

Data Gaps

This Phase I ESA has been prepared in conformance with ASTM Standard Practice E 1527-21. There were a few minor data gaps associated with historical information sources (gaps in dates of historic aerial photographs and historical topographic maps) and the lack of Sanborn map coverage. However, a combination of other data sources was available such that no significant data gap existed, and the historical research objectives were achieved. There were no data gaps that significantly affected the ability of Acorn Environmental to identify recognized environmental conditions associated with the Subject Property. Limitations and exceptions are discussed in Sections 1.4 and 5.1.

Findings

This Phase I ESA revealed no evidence of historical or current recognized environmental conditions, or *de minimis conditions*, in connection with the Subject Property pursuant to the ASTM Practice E 1527-21.

Recommendations

Records review, database searches, and site investigation failed to identify any recognized environmental conditions in connection with the Subject Property. Therefore, no further hazardous materials investigations of the Subject Property are recommended.

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Appendix H Lien Search/ Tax and Building Permits
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Appendix M BIA Survey – Walker Property

Section 1 | Introduction

1.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located approximately 375 feet south, across Interstate Highway 8, from land held in federal trust by the Ewiiaapaayp Band of Kumeyaay Indians (Tribe). The Subject Property is located to the south of Alpine Boulevard, in unincorporated San Diego County, California, as shown in **Figure 1** and **Figure 2**. An aerial photograph of the Subject Property is shown in **Figure 3**. The Subject Property, totaling 48.7 acres, is identified as San Diego County Assessor's Parcel Number (APNs) 404-090-13-00, 404-080-26-00, and 404-090-07-00 (legal description included in Owner provided title documentation). The topography of the Subject Property ranges from 2,160 feet above mean sea level (amsl) along the western property boundary to 2,320 feet amsl in the southeastern corner of the site. Access to the Subject Property is along Alpine Boulevard (County maintained roadway) to the north and Bell Bluff Road (a private paved roadway) in the center of the site. The parcels within the Subject Property have been owned by the Tribe since 2000 (Walker – APN 404-080-24-00), 2000 (Salerno – APN 404-090-07-00), and 2023 (Walker II- APN 404-090-13-00) respectively.

1.1.1 Subject Property Characteristics and Current Use

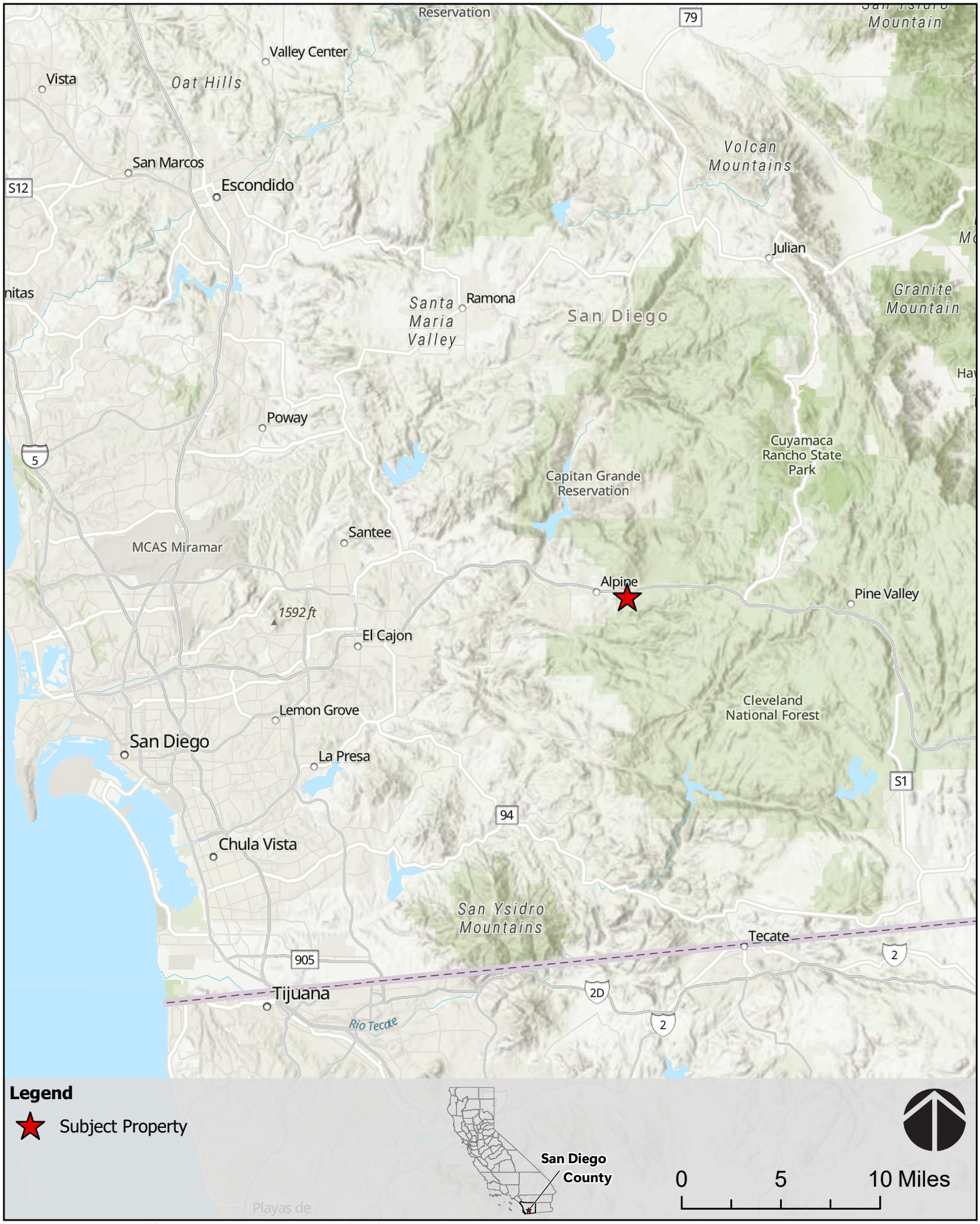
The Subject Property, located in central unincorporated San Diego County, is partially developed with residential units and auxiliary structures in APN 404-090-13-00. The remaining areas are agricultural land (within APN 404-080-26-00), and undeveloped grasslands (within APN 404-090-07-00). Buildings within APN 404-090-13-00, including a barn, two residences (single family residence and mobile home), and associated outbuildings are normal facilities indicative of farming/ranching operations. The residential dwellings and other structures are dated, however, they remain in well maintained condition. A groundwater well provides water service to the structures and an individual septic tank is installed and operational.

At the time of site reconnaissance in September 2023, the existing residences were occupied and no active agricultural operations were noted.

The Subject Property is currently zoned A70 (Limited Agricultural) by San Diego County, a designation intended for crop or animal agriculture (San Diego County, 2023a). The land use designation for the Subject Property is Village Residential 2 (San Diego County, 2023b). These zoning and land use designations are consistent with development features on the Subject Property.

1.1.2 Current Use of Adjoining Properties

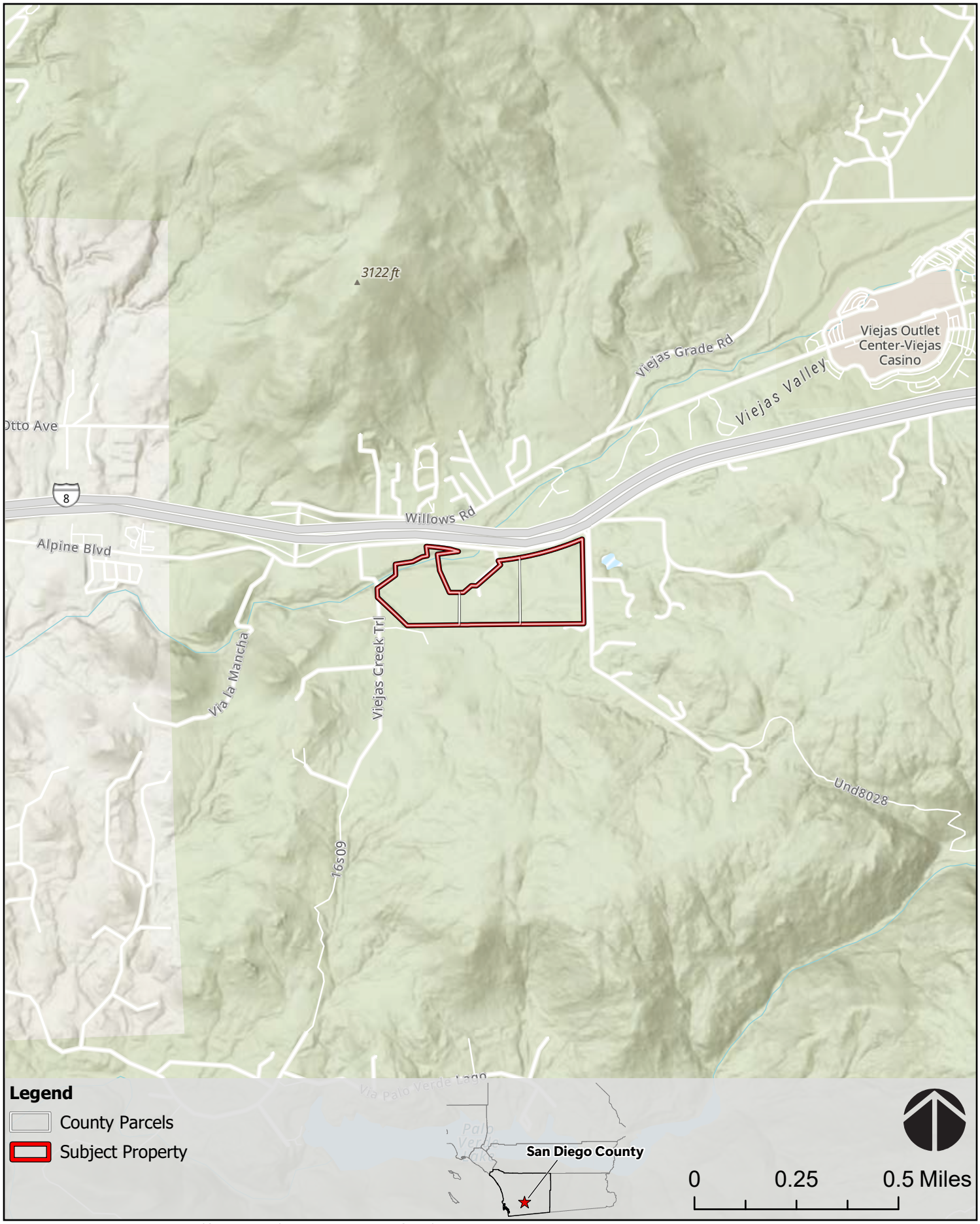
The parcels surrounding the Subject Property are zoned A70 by San Diego County (San Diego County, 2023a). Surrounding land uses consist of mostly undeveloped open space and rural residential development. Six adjacent parcels directly north of the Subject Property along Alpine Boulevard and Bell Bluff Road, are developed with single-family residences and associated infrastructure. Adjacent properties to the east, west and south are additionally developed with rural residential uses. Interstate 8, major east/west roadway in San Diego County is located to the north of Alpine Boulevard.



Esri, CGIAR, USGS, SanGIS, California State Parks, Esri, HERE, Garmin, SafeGraph, FAO, METI/ NASA, USGS, Bureau of Land Management, EPA, NPS

FIGURE 1

REGIONAL LOCATION



Esri, NASA, NGA, USGS, FEMA, SanGIS, California State Parks, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census

FIGURE 2
SITE AND VICINITY



Esri Community Maps Contributors, SanGIS, California State Parks, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land

FIGURE 3
AERIAL OVERVIEW

1.2 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM 2) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the U.S. Environmental Protection Agency (EPA) (40 CFR 132) All Appropriate Inquiry (AAI) regulations (ASTM, 2016). According to AAI standards, the objective of the inquiry is to identify conditions indicative of releases or threatened releases of hazardous substance, pollutants, contaminants, petroleum and petroleum products, and controlled substances to the Subject Property.

The purpose of this Phase I ESA is to identify Recognized Environmental Conditions (RECs), as defined by Section 1.1.1 of ASTM E 1527-21, which may affect future uses or pose a threat to site occupants of the Subject Property.

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products within a property into structures or the ground, groundwater, or surface water. The term REC is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Historical Recognized Environmental Conditions (HREC) refers to an environmental condition, including a past release of any hazardous substance or petroleum product that has since been remediated, which in the past would have been considered a REC; and the term Controlled Recognized Environmental Conditions (CREC) refers to hazardous substance releases that have been partially addressed through remediation but where some contamination remains in place under certain risk-based restrictions or conditions. Evaluation for HRECs and CRECs are included in this Phase I ESA.

The term *de minimis* condition is defined as "a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs nor CRECs."

1.3 SCOPE OF WORK

Acorn Environmental was contracted by the Tribe to conduct a Phase I ESA in conformance with BIA fee-to-trust guidelines (602 DM 2) and ASTM Standard Practice E 1527-21 for compliance purposes during the production of the Tribes fee-to-trust application. As scoped, this Phase I ESA includes the following tasks:

- Review of previously prepared environmental documentation/ESAs for the Subject Property,
- Site reconnaissance inspection and visual reconnaissance of the Subject Property and adjacent properties to document the setting and identify potential sources of contamination,
- Review of relevant database listings of hazardous material sites, waste generators, and underground storage tanks (UST),

- Review of historical records and physical setting information for the Subject Property and surrounding area to identify past land use activities and hydrogeologic conditions and to evaluate the risk associated with identified activities,

- Interviews and questionnaires with owners, operators, occupants, and/or local government officials with knowledge of current and historical uses of the Subject Property,

- Report documentation to indicate findings, data gaps, conclusions, and recommendations, if needed.

Physical testing of soil or groundwater is not within the scope of this Phase I ESA. Neither testing for asbestos-containing building materials nor lead-based paint surveys is included as part of this assessment.

1.4 ASSUMPTIONS, DEVIATIONS, LIMITATIONS, AND EXCEPTIONS

This Phase I ESA is prepared through a best-effort collection and interpretation of readily available information prepared consistent with the industry standards for completion of a Phase I ESA.

Acorn Environmental made the following assumptions in the preparation of the Phase I ESA:

- Groundwater Flow Direction – direction of groundwater flow was assumed based on information obtained (EDR report), topography, and previously prepared technical studies. The actual flow of localized groundwater may be influenced by factors beyond the scope of this assessment. Subsurface investigation would be necessary to determine site-specific flow direction.
- Interviews – Acorn Environmental considers all information provided through interviews to be complete, unbiased, and provided in good faith.
- Regulatory Agency Information –all information provided by EDR, CalEPA, and local records regarding the regulatory status was considered to be complete, accurate, and current.

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property, nor can it eliminate future hazards. Conformance of this Phase I ESA with ASTM Standard Practice E 1527-21 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historic and current information regarding the Subject Property within the time available, the possibility of undiscovered contamination remains.

Acorn Environmental, as an impartial and independent contractor, has completed this Phase I ESA in accordance with ASTM E 1527-21 and in accordance with the prevailing standard of care for completing such assessments at this time. Acorn Environmental shall not be subject to any express or implied warranties whatsoever. There are no special terms or contractual conditions for this Phase I ESA. There are no limiting conditions or deviations from the ASTM E 1527-21 standards in the preparation and no User-imposed constraints.

Any data gaps are listed in Section 5.1

Section 2 | Interviews and User Provided Information

Section 2 presents a summary of the information on the Subject Property and surrounding area provided to Acorn by the Owner/User via a standard property questionnaires and interviews.

2.1 USER/OWNER QUESTIONNAIRE AND OWNER PROVIDED INFORMATION

The Owner/User questionnaire, included in **Appendix J**, was provided by Acorn Environmental to the Tribe on November 30, 2023 and completed by Robert Pinto, Sr., Tribal Chairman, on October 31, 2023. The questionnaire was prepared consistent with ASTM E 1527-21 Appendix 3, and also requested the following documents, if available, from the Owner/User:

- Title reports
- Previous environmental site assessments or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground or underground storage tanks
- Location of septic systems, oil wells, monitoring wells, or water wells
- Registrations for underground injection systems
- Material Safety Data Sheets; Community Right to Know Plans or Safety, Preparedness, and Prevention Plans; Spill Protection, Countermeasures, and Control Plans
- Hazardous Material Business Plans
- Geotechnical studies or hydrological studies
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws concerning the Property or relating to environmental liens encumbering the Property
- Risk assessments
- Recorded Activity Use Limitations
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

A representative of Tribe provided Acorn with grant deeds and title reports from First American Title Company and North American Title (First American Title 2008; First American Title, 2023; North American Title, 2000), a septic line improvement plan, a memorandum of agreement between the Tribe, USFWS and the BIA regarding critical habitat, and previously prepared Phase I ESA documents. Pursuant to

interviews, questionnaire, and the Title reports, no knowledge or indication of any environmental liens or recognized environmental conditions are noted as associated with the Subject Property.

2.1.1 Valuation Reductions

On the Owner/User Questionnaire, the representative indicated that there was no valuation reduction for environmental issues during purchase of the parcels included in the Subject Property (**Appendix J**).

2.1.2 Specialized Knowledge

No specialized knowledge or actual knowledge that is material to recognized environmental conditions in connection with the Subject Property was provided by the Owner/User questionnaire. Interviews with a Tribal representative noted that the Subject Property was previously used as a personal residence and open space. These land uses are consistent with the historic use.

2.2 TITLE RECORDS, ENVIRONMENTAL LIENS, ACTIVITY AND USE LIMITATION

Title commitment reports, prepared by First American Title Company and North American Title, were provided to Acorn Environmental by the Owner/User (First American Title 2008; First American Title, 2023; North American Title, 2000). These reports and the EDR provided lien search were reviewed for lien records and any encumbrances which may indicate current or past hazardous materials involvement.

Environmental Data Resources, Inc. (EDR) was commissioned on October 30, 2023 to search for chain of title and title liens recorded since 1980 (**Appendix H**). The following deeds were identified: grantor 619 Holdings LLC, transferred APN 404-090-13-00 to the Tribe on July 5, 2023, Donald Walker and Maxine Walker transferred APN 404-080-26-00 to the Tribe on December 28, 2000, and Pasquale Salerno and Marion Salerno transferred APN 404-090-07-00 to the Tribe on June 5, 2000.

Easements are located on the Subject Property, granted for maintaining utilities, a public trail system, waterlines, and roadways within and adjacent to Subject Property boundaries. These easements are identified on title documents.

No environmental liens or active use limitations were identified from title review, interview process, or County records reviewed by Acorn Environmental.

2.3 PROPERTY REPRESENTATIVE INTERVIEWS

Acorn Environmental interviewed a representative of the Tribe, Will Micklin, via phone correspondence on November 20, 2023. Details from the interview are provided below and are incorporated by reference thought this report.

Per this conservation with Mr. Micklin, the Subject Property is planned for development by the Tribe. The Tribe proposes to develop a Tribal office facility, a library community center, two houses, and associated infrastructure, as well as the renovation of an existing dwelling structure. APN 404-080-26-00 consists of grassland that has been historically been in agricultural use for barley/wheat production, as well as a portion of Viejas Creek which contains a segment of a regional trail system. No development activities

have occurred on APN 404-090-07-00 prior to or since purchase by the Tribe in 2000 (Micklin, 2023). The dwelling units on APN 404-090-13-00 are currently used as an office for the Tribe.

The owner's representative has no knowledge of any hazardous materials involvement/storage/use or use of underground storage tanks (USTs) at the Subject Property.

Section 3 | Site Reconnaissance

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify the occurrence of potential current or historic hazardous materials or petroleum involvement within or in the vicinity of the Subject Property. Signs of possible hazardous materials or petroleum involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials and petroleum involvement.

3.2 SITE OBSERVATIONS

Dr. Geo Graening (Acorn Environmental) conducted a site reconnaissance inspection of the Subject Property and a visual reconnaissance of adjacent properties on September 6, 2023. All accessible portions of the Subject Property were observed by a pedestrian survey. **Appendix F** provides photographs that show the site conditions at the time of the site visit. Notable features and environmental conditions are summarized below and located on **Figure 4** and **Figure 5**:

- The Subject Property is developed partially as a rural residential property with portions previously used in agriculture production (barley/wheat). A portion of the central portion of APN 404-090-13-00 has been developed with two residential dwelling units, a barn, and auxiliary structures. The area outside of the Viejas Creek riparian area has been previously used in agricultural production on APN 404-080-26-00. The remainder of the Subject Property, including all of APN 404-090-07-00 is in its natural state with the exception of several unpaved paths/trails roadways.
- A groundwater well was detected during the site reconnaissance in the vicinity of the dwellings on APN 404-090-13-00.
- No stained soil, distressed vegetation, or unusual odors were noted.
- An above-ground propane fuel storage tank is located adjacent to the mobile home in the developed area associated with the APN 404-090-13-00. No signs of spills or odors where noted.
- Alpine Boulevard adjacent to the Subject Property is paved and maintained by San Diego County. Bell Bluff Road, a private paved roadway provides access to the Subject Property and residential dwellings located to the immediate north of the property.
- No hazardous substances and/or petroleum products were noted on the Subject Property.
- Three pole mounted transformers were noted on electrical utility poles in various locations on and the Subject Property. No rusting or leaking of substances was noted on these transformers.

Site observations are summarized in **Table 1**.

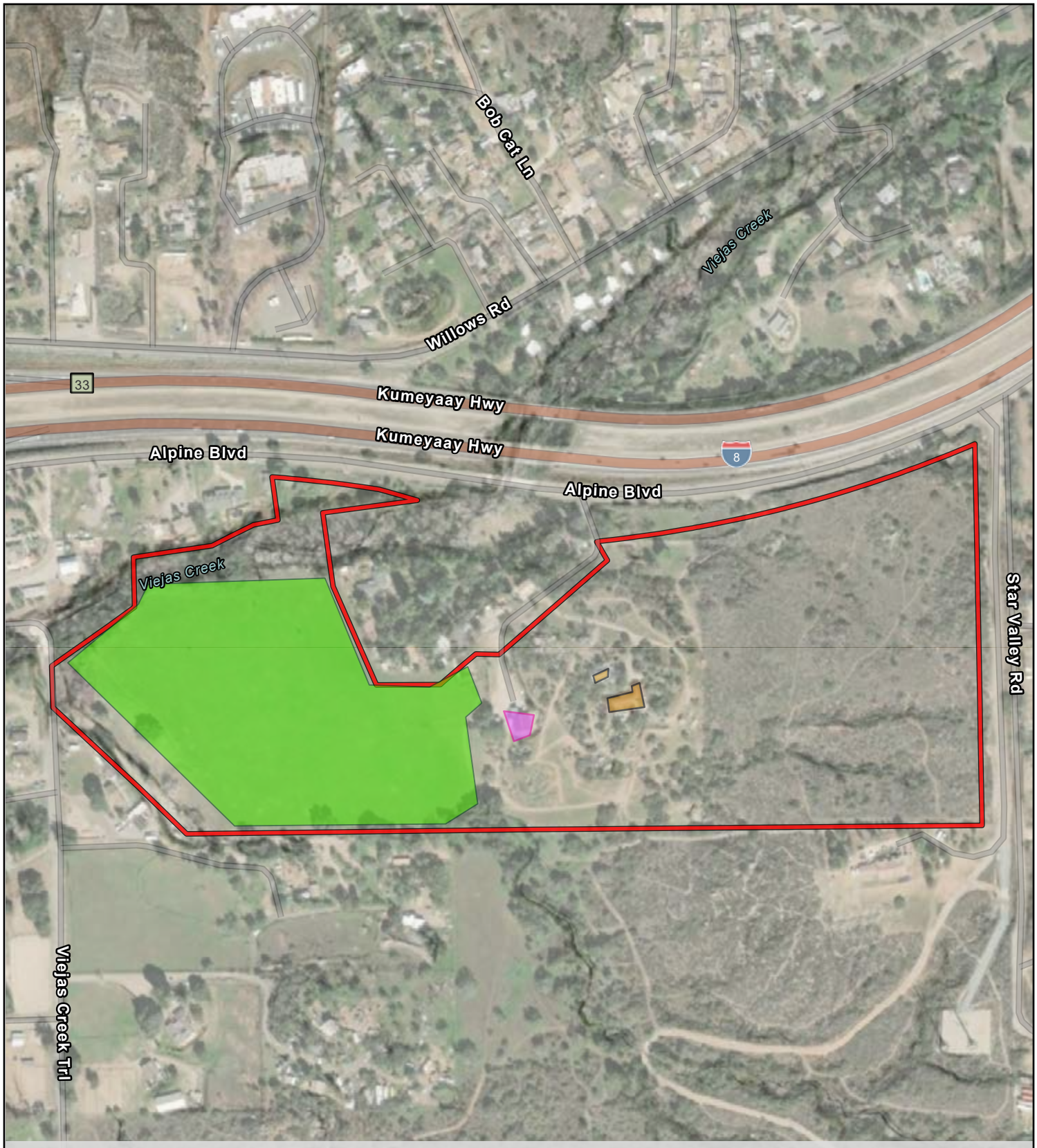


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FIGURE 4
SITE OBSERVATIONS

TABLE 1: SITE OBSERVATIONS

Site Settings	Observations
Current Uses of Property	Residential/Open Space
Past Uses of Property	Ranching/Rural residential
Current Uses of Adjacent Property	North: Residential dwellings along Bell Bluff Road.
	South: Residential units, open space, and minor agricultural use.
	East: Residential units along Star Valley Road
	West: Residential units along Viejas Creek Trail
Current/Past Uses in the Surrounding Area	Open Space/Ranching/Rural residential development
Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions	Topography consists of rolling foothills toward Viejas Creek to the north. Viejas Creek flows through the northwestern portion of the property in a southwestern direction.
General Description of Structures	Two residential structures, a barn, and multiple auxiliary structures in APN 404-090-13-00. Structures are in average condition.
Roads	Paved Alpine Boulevard to the north. Private paved access roadway to the east. Paved Viejas Creek Trail to the west. Private paved Bell Bluff Road in central portion of property providing access to residential dwelling and neighboring dwellings.
Potable Water Supply	No municipal water system observed.
Sewage Disposal System	No municipal sewage disposal systems observed.
Waste Removal Services	Municipal waste services provided to APN 404-090-13-00.
Possible Hazardous Substances and Petroleum Products in Connection with Identified Uses	General ranching maintenance supplies noted in the barn and auxiliary structures within the APN 404-090-13-00. No hazardous substances or petroleum products noted.
Storage Tanks and Associated Piping	An above ground propane storage tank was noted in the vicinity of the mobile home structures on APN 404-090-13-00
Odors	No strong, pungent, or noxious odors were observed.
Pools of Liquid	No pools or liquid were observed.
Drums (5 gal to 55 gal containers should be described)	None noted
Potential Hazardous Substances and Petroleum Products Containers	None noted
Unidentified Substance Containers	General ranching maintenance supplies noted in the barn and auxiliary structures within the APN 404-090-13-00. No hazardous substances or petroleum products noted.

Site Settings	Observations
Polychlorinated Biphenyls (PCB)	Potential PCB-containing equipment associated with electrical service is was noted atop 3 utility lines within the Subject Property. No rusting or leaking of transformers was noted
Pits, Ponds, or Lagoons	None noted
Stained Soil or Pavement	None noted
Stressed Vegetation	No stressed vegetation was observed.
Solid Waste	A minor amount of general household trash was noted in the area surrounding the barn structure on APN 404-090-13-00. No hazardous materials were noted.
Waste Water	No wastewater discharge was observed.
Wells	A groundwater well was noted in developed portion of APN 404-090-13-00.
Septic System	Private septic tank disposal system in developed portion of APN 404-090-13-00.
Stormwater drainage	No evidence of developed stormwater drainage system. Topography indicates surface water drainage towards Viejas Creek.

3.3 ADJACENT PROPERTIES OBSERVATIONS

A survey of adjacent properties was performed to the extent possible without trespassing during the September 9, 2023 site visit. The purpose was to identify land uses of adjacent properties and determine if the current land use of the adjacent properties would affect the current and/or future planned use of the Subject Property. Conditions observed on the adjacent land uses are described below.

- North: Rural residential development along Alpine Boulevard immediately adjacent to the Subject Property. Alpine Boulevard is a frontage road to Interstate 8 which runs in an east/west direction north of the Subject Property Road. Adjacent property to the north includes the development of six structures.
- South: Undeveloped land and rural residential development to the south. Four residential units directly adjacent to the southern boundary.
- West: Residential units along Viejas Creek Trail. Nearest non-residential development is approximately 0.5 mile west of the Subject Property.
- East: Residential units along Star Valley Road to the immediate east. Nearest non-residential development is approximately 0.8 mile east of the Subject Property

Observations of adjoining-property uses do not indicate RECs to the Subject Property.

Section 4 | Records Review

This section summarizes the records review findings for the Subject Property and for adjoining and surrounding properties, including current use and development, physical setting, historical uses, and regulatory agency and database records.

4.1 PHYSICAL SETTING

The Subject Property is located in central San Diego County in the foothills of the Laguna Mountains. Minor land disturbance of the Subject Property has occurred through ranching activities on APN 404-080-26-00, rural residential development on APN 404-090-13-00. Regional access to the Subject Property is provided by Interstate 8, which is located north of the Subject Property and runs in an east/west direction. Direct access is provided by Alpine Boulevard which is located directly to the north. Bell Bluff Road provides access to the residential units within APN 404-090-13-00 (**Figure 1**).

According to the California Department of Conservation, the geologic history of the area generally consists of mixed plutonic rocks from the Mesozoic era (California Department of Conservation, 2023). The dominant soil compositions in the area of the Subject Property are the Fallbrook, Visalia, and Greenfield soil components, which consist of as a sandy loam texture. The soils are classified by the Natural Resource Conservation Service (NRCS) as Class B soil with moderate infiltration rates. The soils on the Subject Property are not considered hydric by the NRCS (**Appendix A;** USDA, 2023).

A number of wetland and riverine features, associated with Viejas Creek, have been classified by the United States Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) within the Subject Property (USFWS, 2023).

Water runoff generally drains to the northwest towards Viejas Creek that traverses the northwestern border of the Subject Property. Drainage systems associated with Alpine Boulevard to the north are located along the boundary of the Subject Property.

The Subject Property falls within Flood Zone X under FEMA Flood Zone classifications which is determined to be outside the 500-year flood (**Appendix I**).

According to the EDR report (see **Appendix A**) and California Department of Water Resources (DWR, 2023) there are 9 noted active wells within a 1-mile radius of the Subject Property. However, 1 active well was noted during the site visit in the vicinity of the dwelling units on APN 404-090-13-00. Due to the lack of a municipal water system in the vicinity of the Subject Property it is assumed to adjacent property obtain water via individual groundwater wells.

4.2 HISTORICAL USE INFORMATION

The historic use of the Subject Property and adjoining properties was compiled through review of historical sources and reasonably ascertainable information pertaining to the Subject Property. Historical sources reviewed by Acorn Environmental included:

- Aerial photographs obtained from EDR and the county or other public sources dated 1928, 1949, 1953, 1964, 1979, 1985, 1990, 1994, 1996, 2002, 2005, 2009, 2012, 2016, and 2020. Aerial photographs were of varying clarity (**Appendix B**).
- Sanborn® Fire Insurance maps report obtained from EDR indicated the Subject Property was unmapped (**Appendix D**).
- Topographic maps, obtained from EDR, included the 1903 Cuyamaca, the 1942 and 1944 Cuyamaca Peak, and the 1960, 1982, 1988, 1997, 2012, 2015, and 2018 Viejas Mountain. (**Appendix C**).
- Current and historical tax assessor documents provided by EDR and San Diego County.
- Previously prepared Phase I ESAs on the parcels within the Subject Property provided by the User/Owner;
- Pertinent information provided through questionnaires/interviews with the User/Owner of the Subject Property, and others.

The historical resources reviewed during the preparation of the Phase I ESA are in general accordance with the requirements of ASTM E 1527-21. Copies of the historical records obtained from the sources above are provided in attached Appendices.

EDR's Sanborn report indicated that there is no coverage of the Subject Property, which is a minor data gap.

The following subsections provide the findings of the historical review.

4.2.1 Subject Property

The earliest historic physical record of a structure on the Subject Property is a 1953 aerial photograph, which indicated the barn structure in the center of the site. The dwelling unit and mobile home are noted on the 1985 aerial. Agricultural use on APN 404-080-26-00 is noted on the 1928 aerial through the 2012 when the aerial photograph notes fallow land.

No visual clues, outside of historic ranching activities, indicating possible recognized environmental conditions or industrial facilities which handle hazardous materials, were noted on the Subject Property.

4.2.2 Adjoining and Surrounding Properties

The following is a summary of the historical use of the adjoining and surrounding properties based on Acorn review of the historical sources during this study.

North: Interstate 8 and Alpine Boulevard constructed between the 1949 and 1953 photographs, with Alpine Boulevard becoming distinguished from I-8 on the 1975 aerial photograph. Rural residential noted along Bell Bluffs Road and across I-8.

South: Undeveloped open space and sparse rural residential development noted in aerial photographs and topographic maps.

East: Undeveloped open space, agricultural operations (orchard) and sparse rural residential development noted in aerial photographs and topographic maps.

West: Rural residential noted in aerial photographs and topographic maps.

No RECs were identified based on the historical use of the adjoining and surrounding properties.

4.3 REGULATORY ENVIRONMENTAL RECORDS REVIEW

This section summarizes sources of environmental records in which the Subject Property is located. These sufficiently useful, accurate, and complete sources of environmental records pertaining to the Subject Property were reasonably ascertainable and were obtained pursuant to good commercial and customary practices.

4.3.1 Regulatory Agency Database Search

The regulatory agency database search was conducted by EDR on October 30, 2023, a computerized search firm that uses a geographic information system to plot locations of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination within the ASTM approximate minimum search distances. Although a site may be listed within a regulatory agency database search, the listed site may not currently be contaminated or affect the environmental quality of the Subject Property and therefore be considered a REC. The regulatory agency database search is only as accurate as the data and date the data entered into the regulatory agency-maintained database was last updated. If not reported to the appropriate regulatory agency, installation of USTs or hazardous materials releases would not be listed on the regulatory agency databases searched.

The complete list of reviewed regulatory agency databases, search distances, and results is provided in the Map Finding Summary section of the EDR radius map report included as **Appendix A.** The Subject Property is not listed in the databases queried by EDR. A table providing information on the listed cases in the vicinity of the Subject Property is provided in **Table 2**.

One unmapped site was listed in the EDR radius report, the Alpine Burnsite II, located to the west of the Subject Property along Chocolate Summit Road (**Appendix A**). Due to the site description and distance this site is not further analyzed in this Phase I ESA.

4.3.2 California Environmental Protection Agency

Acorn Environmental reviewed public records for the Subject Property and any adjoining properties via the California Environmental Protection Agency public record request portal (CalEPA, 2023). No records are noted for the Subject Property.

According to the CalEPA portal, the closest listed site, Verizon Wireless 8 Willows site is located to the east to the Subject Property along Alpine Boulevard. The Verizon site is listed and regulated as a Chemical storage facility (lead acid batteries). Based on the continued regulatory oversight and the distance from the Subject Property, the Verizon site is not considered a REC to the Subject Property.

TABLE 2: DATABASE LISTINGS

Listed Site	Regulatory Databases	Finding
SUBJECT PROPERTY		
San Diego County Parcel Numbers 404-090-13-00, 404-080-26-00, and 404-090-07-00	No Listings noted.	**NOT A REC**
SURROUNDING PROPERTIES		
A+ Rock Breaker, LLC	RCRA Non-Generators (NonGen)/NLR	Located approximately 1,000 feet to the southwest, this RCRA NonGen site does not presently generate hazardous waste and is no longer regulated. **NOT A REC**
Southern Indian Health Council Inc.	RCRA NonGen/NLR	Located approximately 1,080 feet to the north, this RCRA NonGen site does not presently generate hazardous waste and is no longer regulated. **NOT A REC**
Mary Tickner	RCRA NonGen/NLR	Located approximately 750 feet to the north, this RCRA NonGen site does not presently generate hazardous waste and is no longer regulated. **NOT A REC**
Linda Ecclesine	RCRA NonGen/NLR	Located approximately 1,140 feet to the north, this RCRA NonGen site does not presently generate hazardous waste and is no longer regulated. **NOT A REC**

4.3.3 San Diego County Public Records

Acorn Environmental submitted a public records request to San Diego County on July 28, 2023, for any Subject Property records maintained by the County health and environmental departments. Atish Khalili, Office Support Specialist with the San Diego County Department of Environmental Health and Quality, responded via email that they did not have any records pertaining to hazardous material involvement or storage for the Subject Property (San Diego County Department of Environmental Health and Quality, 2023) (**Appendix J**).

4.3.4 Previous Environmental Studies

Multiple Phase I ESAs have been separately prepared for the APNs composing the Subject Property by Environmental Science Associates (ESA) in 2000 (APNs 404-090-07-00 and 404-080-26-00) and Analytical Environmental Services (AES) in 2016 (APN 404-090-07-00) and 2018 (APN 404-090-13-00) (**Appendix K**).

The 2000 ESA Phase I ESA was prepared in accordance with ASTM E 1527-97, while the 2016 and 2018 AES Phase I ESA were performed in conformance with ASTM E 1527-13. Information in the 2010, 2016, and 2018 Phase I ESAs, indicate no RECs or conditions regarding past or present use of the Subject Property (ESA, 2000; AES, 2016; AES, 2018; Appendix K). A BIA Phase I Survey Checklist, including a pedestrian survey on June 16, 2008, was signed by a BIA Environmental Protection Specialist in 2008.

No new activities or operations have occurred on the Subject Property since the production of the 2000, 2016, and 2018 Phase I ESAs and the signed 2009 BIA Phase I Survey Checklist.

Where appropriate the previously prepared Phase I ESAs were used as reference.

Section 5 | Evaluation

5.1 ASTM SIGNIFICANT DATA GAPS

ASTM defines a data gap as a lack, of or inability to obtain, information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an inability to interview the key site manager, regulatory officials, etc.)

A data gap of greater than five years is present between historical information sources (historic aerials and historic topographic maps) and no Sanborn mapping was provided. However, using the historical information sources available, including topographic maps and aerials, and interviews; Acorn Environmental determined that a thorough site history could be constructed for the Subject Property and historical research objectives were achieved. There were no deletions from the ASTM Practice E 1527-21.

5.2 FINDINGS

Based on information gathered while conducting this Phase I ESA for the Subject Property (San Diego County APNs 404-090-13-00, 404-080-26-00, and 404-090-07-00) in unincorporated San Diego County, California, the following conditions were observed:

- The Subject Property is partially developed with residential dwelling units and auxiliary ranching infrastructure. Infrastructure noted on the Subject Property indicates historic small scale ranching activities within the Subject Property, including small animal husbandry and fodder production.
- APN 404-090-07-00 is undeveloped non-native annual grassland containing no structures, remnants of structures, water or wastewater systems, or paved roadways.
- During the site reconnaissance inspection, there was no visible evidence of uncontained hazardous materials storage, misuse of materials, or releases observed within the Subject Property.
- Records reviewed found no environmental liens or AULs on the Subject Property.
- EDR database queries noted no listed cases of hazardous materials involvement on or in the vicinity of the Subject Property.

Pursuant to ASTM E 2247-21, this assessment revealed no RECs in connection with the Subject Property.

5.3 CONCLUSIONS

This Phase I ESA has been prepared in conformance with BIA fee-to-trust guidelines (602 DM 2) and the ASTM Standard Practice E 1527-21. Any data gaps, exceptions to, or deletions from, this practice are described in **Section 1.4** and **Section 5.1** of this report.

Based on the site conditions during the site reconnaissance inspections, EDR report (**Appendices B**, **C**, **D**, **E**, and **A**), information provided in the previously prepared Phase I ESAs (**Appendix K**), and records review, no RECs, CRECs, BECs, HRECs, were identified in connection with the Subject Property.

5.4 RECOMMENDATIONS

Based on the findings and the scope of work of this Phase I ESA, no further hazardous materials investigation of the Subject Property is recommended at this time.

Section 6 | Report Authors

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. David Sawyer, Report Preparer, Dr. Geo Graning, Site Assessor, and Report Preparer, assembled this report under the professional supervision of Ryan Sawyer, AICP (American Institute of Certified Planners), who qualifies as an environmental professional (EP) as defined in the ASTM Standard E 1527-21, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. The signature of Ryan Sawyer, AICP appears below and her resume is included in **Appendix G**.

REPORT PREPARATION

Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 9562

Environmental Professional: 

Ryan Sawyer, AICP

12/14/2023

Date

Section 7 | References

American Society for Testing and Materials (ASTM), 2021. Practice E 1527-21: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process."

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Appendix A

EDR Radius Map Report

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.2s
October 30, 2023

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

4221 ALPINE BOULEVARD
ALPINE, CA 91901

COORDINATES

Latitude (North):	32.8315400 - 32° 49' 53.54''
Longitude (West):	116.7228800 - 116° 43' 22.36''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	525937.1
UTM Y (Meters):	3632455.2
Elevation:	2241 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	12008273 VIEJAS MOUNTAIN, CA
Version Date:	2018

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200415, 20200425
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
4221 ALPINE BOULEVARD
ALPINE, CA 91901

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
Reg	VIEJAS RESERVATION		INDIAN RESERV	Same	3016, 0.571, NE
1	SOUTHERN INDIAN HEAL	4058 WILLOWS RD	RCRA NonGen / NLR	Lower	564, 0.107, NW
2	A+ ROCK BREAKER, LLC	1562 VIEJAS CREEK TR	RCRA NonGen / NLR	Lower	811, 0.154, SW
3	MARY TICKNER	4212 WILLOWS RD.	RCRA NonGen / NLR	Lower	821, 0.155, North
4	LINDA ECCLESINE	3966 WILLOWS RD	RCRA NonGen / NLR	Higher	1160, 0.220, NW

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

Lists of Federal NPL (Superfund) sites

NPL ---- National Priority List
Proposed NPL ---- Proposed National Priority List Sites
NPL LIENS ---- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---- Federal Facility Site Information listing
SEMS ---- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---- RCRA - Large Quantity Generators
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

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE---- State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR---- EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF---- Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST---- Geotracker's Leaking Underground Fuel Tank Report
SAN DIEGO CO. SAM---- Environmental Case Listing
INDIAN LUST---- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC---- Statewide SLIC Cases

Lists of state and tribal registered storage tanks

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

Lists of state and tribal voluntary cleanup sites

INDIAN VCP---- Voluntary Cleanup Priority Listing
VCP---- Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS---- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS---- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT---- Waste Management Unit Database
SWRCY---- Recycler Database
HAULERS---- Registered Waste Tire Haulers Listing
INDIAN ODI---- Report on the Status of Open Dumps on Indian Lands

ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
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
San Diego Co. HMMD	Hazardous Materials Management Division Database
Toxic Pits	Toxic Pits Cleanup Act Sites
CERS HAZ WASTE	California Environmental Reporting System Hazardous Waste
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CA FID UST	Facility Inventory Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

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)

EXECUTIVE SUMMARY

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
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
MINES MRDS	Mineral Resources Data System
ABANDONED MINES	Abandoned Mines
FINDS	Facility Index System/Facility Registry System
DOCKET HWC	Hazardous Waste Compliance Docket Listing
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS ECHO	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAINING	Facilities in Industries that May Be Handling PFAS Listing
PFAS PART 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
PFAS	PFAS Contamination Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
HWTS	Hazardous Waste Tracking System
HAZNET	Facility and Manifest Data
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records

HAZMAT Hazardous Material Facilities
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
SAN DIEGO CO LOP Local Oversight Program 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)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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.

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

EXECUTIVE SUMMARY

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 07/24/2023 has revealed that there are 4 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
LINDA ECCLESINE EPA ID:: CAC003064396	3966 WILLOWS RD	NW 1/8 - 1/4 (0.220 mi.)	4	16

Lower Elevation	Address	Direction / Distance	Map ID	Page
SOUTHERN INDIAN HEAL EPA ID:: CAL000082197	4058 WILLOWS RD	NW 0 - 1/8 (0.107 mi.)	1	9
A+ ROCK BREAKER, LLC EPA ID:: CAC003032221	1562 VIEJAS CREEK TR	SW 1/8 - 1/4 (0.154 mi.)	2	12
MARY TICKNER EPA ID:: CAC003011655	4212 WILLOWS RD.	N 1/8 - 1/4 (0.155 mi.)	3	14

INDIAN RESERV: This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

A review of the INDIAN RESERV list, as provided by EDR, and dated 12/31/2014 has revealed that there is 1 INDIAN RESERV site within approximately 1 mile of the target property.

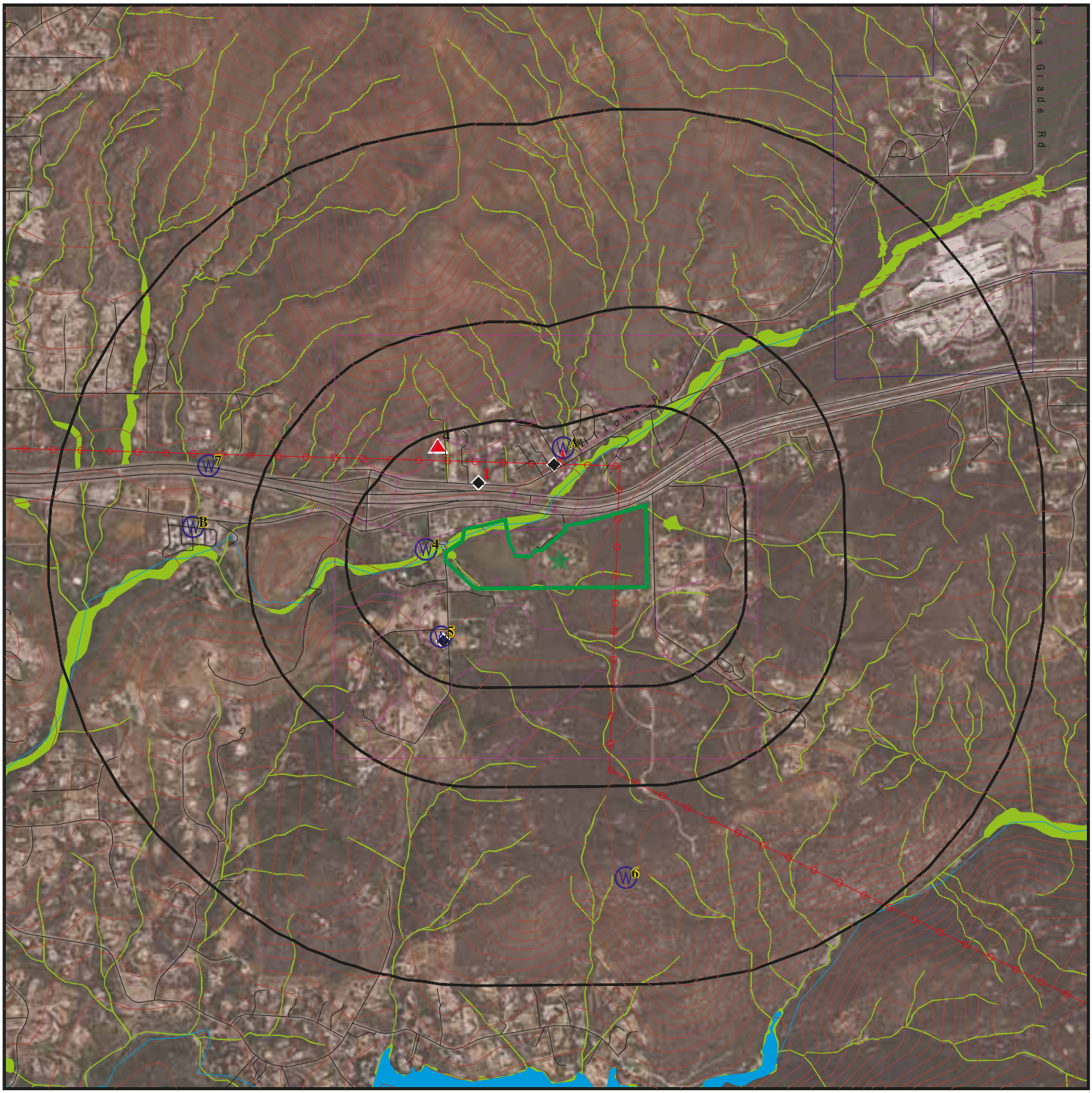
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
VIEJAS RESERVATION		NE 1/2 - 1 (0.571 mi.)	0	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
ALPINE BURNSITE II	SWF/LF

OVERVIEW MAP - 7483840.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Ewiiaapaayp Fee-to-Trust	CLIENT:	Acorn Environmental
ADDRESS:	4221 Alpine Boulevard Alpine CA 91901	CONTACT:	David Sawyer
		INQUIRY #:	7483840.2s
LAT/LONG:	32.83154 / 116.72288	DATE:	October 30, 2023 1:59 pm

Copyright © 2023 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 7483840.2S



0 1/8 1/4 1/2 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 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: Ewiiaapaayp Fee-to-Trust	CLIENT: Acorn Environmental
ADDRESS: 4221 Alpine Boulevard Alpine CA 91901	CONTACT: David Sawyer INQUIRY #: 7483840.2s
LAT/LONG: 32.83154 / 116.72288	DATE: October 30, 2023 2:00 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								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
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
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	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
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
SAN DIEGO CO. SAM	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
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
San Diego Co. HMMD	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		0	0	NR	NR	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CA FID UST	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
CERS TANKS	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
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		1	3	NR	NR	NR	4
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	1	NR	1
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
MINES MRDS	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
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	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
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINING	0.250		0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	0.001		0	NR	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	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
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
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
SAN DIEGO CO LOP	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

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
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		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	1	3	0	1	0	5

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

IND RES **VIEJAS RESERVATION** **INDIAN RESERV** **CIND200818**
Region **N/A**
NE
1/2-1 **, CA**
3016 ft.

INDIAN RESERV:
Feature: Indian Reservation
Name: Viejas Reservation
Agency: BIA

---

1 **SOUTHERN INDIAN HEALTH COUNCIL INC** **RCRA NonGen / NLR** **1026825328**
NW **4058 WILLOWS RD** **CAL000082197**
< 1/8 **ALPINE, CA 91901**
0.107 mi.
564 ft.

Relative:
Lower

Actual:
2209 ft.

RCRA Listings:

Date Form Received by Agency:	20230719
Handler Name:	Southern Indian Health Council Inc
Handler Address:	4058 WILLOWS RD
Handler City,State,Zip:	ALPINE, CA 91901
EPA ID:	CAL000082197
Contact Name:	ROSIE SOTO
Contact Address:	4058 WILLOWS RD
Contact City,State,Zip:	ALPINE, CA 91901
Contact Telephone:	619-445-1188 x523
Contact Fax:	619-659-3141
Contact Email:	RSOTO@SIHC.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:	4058 WILLOWS RD
Mailing City,State,Zip:	ALPINE, CA 91901
Owner Name:	Southern Indian Health Council, Inc
Owner Type:	Other
Operator Name:	Southern Indian Health Council Inc
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 State-Reg Handler:	---
Federal Facility Indicator:	Not reported

SOUTHERN INDIAN HEALTH COUNCIL INC (Continued) **1026825328**

Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed 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
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:	20230719
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:	SOUTHERN INDIAN HEALTH COUNCIL, INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4058 WILLOWS ROAD
Owner/Operator City,State,Zip:	ALPINE, CA 91901-1620
Owner/Operator Telephone:	619-445-1188
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	QUALITY MANAGEMENT MANAGER
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4058 WILLOWS ROAD
Owner/Operator City,State,Zip:	ALPINE, CA 91901-1620
Owner/Operator Telephone:	619-445-1188
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SOUTHERN INDIAN HEALTH COUNCIL, INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported

SOUTHERN INDIAN HEALTH COUNCIL INC (Continued) **1026825328**

Owner/Operator Address: 4058 WILLOWS ROAD
Owner/Operator City,State,Zip: ALPINE, CA 91901-1620
Owner/Operator Telephone: 619-445-1188
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: SOUTHERN INDIAN HEALTH COUNCIL INC
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 4058 WILLOWS RD
Owner/Operator City,State,Zip: ALPINE, CA 91901
Owner/Operator Telephone: 619-445-1188
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: 619-659-3141
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 19930115
Handler Name: SOUTHERN INDIAN HEALTH COUNCIL, INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: Not reported
Recognized Trader Exporter: Not reported
Spent Lead Acid Battery Importer: Not reported
Spent Lead Acid Battery Exporter: Not reported
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20230719
Handler Name: SOUTHERN INDIAN HEALTH COUNCIL 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: No
Electronic Manifest Broker: No

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

2
SW
1/8-1/4
0.154 mi.
811 ft.

A+ ROCK BREAKER, LLC
1562 VIEJAS CREEK TRL
ALPINE, CA 91901

RCRA NonGen / NLR

1025852074
CAC003032221

Relative:
Lower

Actual:
2202 ft.

RCRA Listings:

Date Form Received by Agency:	20190903
Handler Name:	A+ Rock Breaker, Llc
Handler Address:	1562 VIEJAS CREEK TRL
Handler City,State,Zip:	ALPINE, CA 91901-2351
EPA ID:	CAC003032221
Contact Name:	ALLISON OFFERLE
Contact Address:	1562 VIEJAS CREEK TRL
Contact City,State,Zip:	ALPINE, CA 91901-2351
Contact Telephone:	260-450-5090
Contact Fax:	Not reported
Contact Email:	HAYES19912009@GMAIL.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:	1562 VIEJAS CREEK TRL
Mailing City,State,Zip:	ALPINE, CA 91901-2351
Owner Name:	John Wheeler
Owner Type:	Other
Operator Name:	Allison Offerle
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 State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

A+ ROCK BREAKER, LLC (Continued) **1025852074**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
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:	20190910
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: ALLISON OFFERLE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1562 VIEJAS CREEK TRL
Owner/Operator City,State,Zip:	ALPINE, CA 91901-2351
Owner/Operator Telephone:	260-450-5090
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name: JOHN WHEELER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1562 VIEJAS CREEK TRL
Owner/Operator City,State,Zip:	ALPINE, CA 91901-2351
Owner/Operator Telephone:	260-450-5090
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20190903
Handler Name: A+ ROCK BREAKER, LLC	
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

A+ ROCK BREAKER, LLC (Continued) **1025852074**

List of NAICS Codes and Descriptions:
NAICS Code: 444190
NAICS Description: OTHER BUILDING MATERIAL DEALERS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

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3 **MARY TICKNER** **RCRA NonGen / NLR** **1025832092**
North **4212 WILLOWS RD.** **CAC003011655**
1/8-1/4 **ALPINE, CA 91901**
0.155 mi.
821 ft.

Relative:
Lower

Actual:
2202 ft.

RCRA Listings:

Date Form Received by Agency:	20190424
Handler Name:	Mary Tickner
Handler Address:	4212 WILLOWS RD.
Handler City,State,Zip:	ALPINE, CA 91901
EPA ID:	CAC003011655
Contact Name:	MARY TICKNER
Contact Address:	4212 WILLOWS RD.
Contact City,State,Zip:	ALPINE, CA 91901
Contact Telephone:	619-892-3788
Contact Fax:	Not reported
Contact Email:	CINDYEDWARDS@ALLIANCE-ENVIRO.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:	4212 WILLOWS RD.
Mailing City,State,Zip:	ALPINE, CA 91901
Owner Name:	Mary Tickner
Owner Type:	Other
Operator Name:	Mary Tickner
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

MARY TICKNER (Continued) **1025832092**

Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed 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
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:	20190627
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: MARY TICKNER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4212 WILLOWS RD.
Owner/Operator City,State,Zip:	ALPINE, CA 91901
Owner/Operator Telephone:	619-892-3788
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: MARY TICKNER	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4212 WILLOWS RD.
Owner/Operator City,State,Zip:	ALPINE, CA 91901
Owner/Operator Telephone:	619-892-3788
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

MARY TICKNER (Continued) **1025832092**

Historic Generators:
Receive Date: 20190424
Handler Name: MARY TICKNER
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

4
NW
1/8-1/4
0.220 mi.
1160 ft.

LINDA ECCLESINE
3966 WILLOWS RD
ALPINE, CA 91901

RCRA NonGen / NLR **1026164388**
CAC003064396

Relative:
Higher

Actual:
2260 ft.

RCRA Listings:
Date Form Received by Agency: 20200424
Handler Name: Linda Ecclesine
Handler Address: 3966 WILLOWS RD
Handler City,State,Zip: ALPINE, CA 91901-1618
EPA ID: CAC003064396
Contact Name: LINDA ECCLESINE
Contact Address: PO BOX 335
Contact City,State,Zip: RAMONA, CA 92065
Contact Telephone: 760-533-0834
Contact Fax: Not reported
Contact Email: VANESSAPIZARRO@ALLIANCE-ENVIRO.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: PO BOX 335
Mailing City,State,Zip: RAMONA, CA 92065
Owner Name: Linda Ecclesine

LINDA ECCLESINE (Continued) **1026164388**

Owner Type:	Other
Operator Name:	Linda Ecclesine
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 State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed 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
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:	20200424
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: LINDA ECCLESINE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 335
Owner/Operator City,State,Zip:	RAMONA, CA 92065
Owner/Operator Telephone:	760-533-0834
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LINDA ECCLESINE (Continued) **1026164388**

Owner/Operator Indicator:	Operator
Owner/Operator Name: LINDA ECCLESINE	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 335
Owner/Operator City,State,Zip:	RAMONA, CA 92065
Owner/Operator Telephone:	760-533-0834
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20200424
Handler Name: LINDA ECCLESINE	
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

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
ALPINE	S105155608	ALPINE BURNSITE II	EAST OF 9715 CHOCOLATE SUMMIT		SWF/LF

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

Lists of Federal NPL (Superfund) sites

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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/08/2024
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

Lists of Federal Delisted NPL sites

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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 06/23/2023
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/08/2024
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 08/03/2023
Date Data Arrived at EDR: 08/07/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 64

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 08/02/2023
Next Scheduled EDR Contact: 11/20/2023
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: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/21/2023
Next Scheduled EDR Contact: 12/04/2023
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: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 62

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/21/2023
Next Scheduled EDR Contact: 12/04/2023
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: 06/12/2023
Date Data Arrived at EDR: 06/20/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 55

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

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: 07/24/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/24/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

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: 07/24/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/24/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

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: 08/07/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 79

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report
Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

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: 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: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Quarterly

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 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

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 05/30/2023
Number of Days to Update: 82
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 05/31/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/19/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/14/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/20/2023
Date Data Arrived at EDR: 05/09/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 66

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

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

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: 09/12/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/24/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

Lists of state and tribal brownfield 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: 06/14/2023
Date Data Arrived at EDR: 06/14/2023
Date Made Active in Reports: 09/06/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 04/06/2023
Date Data Arrived at EDR: 04/13/2023
Date Made Active in Reports: 04/19/2023
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 08/30/2023
Next Scheduled EDR Contact: 12/25/2023
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: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing

A listing of registered waste tire haulers.

Date of Government Version: 11/16/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/13/2023
Number of Days to Update: 83

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 11/20/2023
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: 10/23/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 10/28/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 48

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2023
Next Scheduled EDR Contact: 12/04/2023
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: 07/24/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 10/24/2023
Next Scheduled EDR Contact: 02/05/2024
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: 12/31/2020
Date Data Arrived at EDR: 11/30/2022
Date Made Active in Reports: 02/09/2023
Number of Days to Update: 71

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: California Environmental Reporting System Hazardous 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: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/06/2023
Number of Days to Update: 80
Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
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: 05/22/2023
Date Data Arrived at EDR: 05/23/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 48
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/21/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing
Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35
Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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: 08/04/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/25/2023
Number of Days to Update: 78
Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/06/2023
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Quarterly

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 06/06/2023
Date Data Arrived at EDR: 06/07/2023
Date Made Active in Reports: 08/25/2023
Number of Days to Update: 79

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/08/2024
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: 05/25/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 81

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/19/2023
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 89

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 06/01/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 79

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 01/29/2024
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: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/25/2023
Number of Days to Update: 81

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/25/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 07/24/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 08/07/2023
Date Data Arrived at EDR: 08/15/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 56

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 11/27/2023
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: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 10/09/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

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: 10/04/2023
Next Scheduled EDR Contact: 01/15/2024
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: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/01/2023
Next Scheduled EDR Contact: 11/20/2023
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: 06/19/2023
Date Data Arrived at EDR: 06/20/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 55

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 11/13/2023
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: 08/03/2023
Next Scheduled EDR Contact: 11/13/2023
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: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/15/2023
Next Scheduled EDR Contact: 12/25/2023
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: 12/31/2021
Date Data Arrived at EDR: 02/16/2023
Date Made Active in Reports: 05/02/2023
Number of Days to Update: 75

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/18/2023
Next Scheduled EDR Contact: 11/27/2023
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: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 84

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 01/29/2024
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 12/11/2023
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: 05/09/2023
Date Data Arrived at EDR: 06/29/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 09/26/2023
Next Scheduled EDR Contact: 01/29/2024
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: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 11/13/2023
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: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/06/2023
Next Scheduled EDR Contact: 01/15/2024
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: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
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: 07/20/2023
Date Data Arrived at EDR: 09/01/2023
Date Made Active in Reports: 09/20/2023
Number of Days to Update: 19

Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 12/31/2021
Date Data Arrived at EDR: 04/14/2023
Date Made Active in Reports: 07/10/2023
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/01/2023
Next Scheduled EDR Contact: 12/11/2023
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: 08/28/2023
Next Scheduled EDR Contact: 12/11/2023
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: 08/03/2023
Next Scheduled EDR Contact: 11/13/2023
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: 09/22/2023
Next Scheduled EDR Contact: 01/08/2024
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: 10/04/2023
Next Scheduled EDR Contact: 02/05/2024
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: 06/30/2023
Date Data Arrived at EDR: 07/19/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 83
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
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: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 10/02/2023
Next Scheduled EDR Contact: 01/15/2024
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: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98
Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 08/10/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/08/2024
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

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Quarterly

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: 05/01/2023
Date Data Arrived at EDR: 05/24/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 61

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 01/07/2022
Date Data Arrived at EDR: 02/24/2023
Date Made Active in Reports: 05/17/2023
Number of Days to Update: 82

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/24/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 08/24/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/24/2023
Next Scheduled EDR Contact: 12/04/2023
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: 06/13/2023
Date Data Arrived at EDR: 06/14/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 61

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/12/2023
Next Scheduled EDR Contact: 12/18/2023
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: 05/04/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 07/24/2023
Number of Days to Update: 60

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/24/2023
Date Data Arrived at EDR: 06/29/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
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: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 10/20/2022
Date Made Active in Reports: 01/10/2023
Number of Days to Update: 82

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 09/13/2023
Next Scheduled EDR Contact: 01/22/2024
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: 08/14/2023
Date Data Arrived at EDR: 08/15/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 65

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 10/23/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 09/23/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 10/02/2023
Number of Days to Update: 89

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/05/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/05/2023
Date Data Arrived at EDR: 07/06/2023
Date Made Active in Reports: 09/25/2023
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: No Update Planned

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: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Varies

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 07/16/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

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

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 06/08/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 110

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

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: 06/14/2023
Date Data Arrived at EDR: 06/14/2023
Date Made Active in Reports: 09/06/2023
Number of Days to Update: 84

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 03/31/2023
Date Data Arrived at EDR: 05/08/2023
Date Made Active in Reports: 07/31/2023
Number of Days to Update: 84

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/10/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB CO DIST: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 78

Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 07/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN DIEGO CO DIST: San Diego County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 08/08/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 78

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RIVER DIST: Feather River Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 06/08/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO METO DIST: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/28/2023
Date Made Active in Reports: 07/19/2023
Number of Days to Update: 82
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQ VAL DIST: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 05/24/2023
Date Data Arrived at EDR: 05/30/2023
Date Made Active in Reports: 08/21/2023
Number of Days to Update: 83
Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 09/11/2023
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: 08/27/2021
Date Data Arrived at EDR: 09/01/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 79
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Annually

DRYCLEAN GLENN CO DIST: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 05/02/2023
Date Data Arrived at EDR: 05/03/2023
Date Made Active in Reports: 07/25/2023
Number of Days to Update: 83
Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 05/03/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN DIST: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL CO DIST: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDO CO DIST: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/28/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 77

Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE DESERT DIST: Mojave Desert Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTEREY BAY DIST: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79

Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA CO DIST: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO DIST: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78

Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
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: 05/22/2023
Date Data Arrived at EDR: 05/24/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 82

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER CO DIST: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BAY AREA DIST: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 07/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE CO DIST: Butte County Air Quality Management DistrictDrycleaner Facility Listing
Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1469
Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 10/03/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS CO DIST: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 04/24/2023
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List
Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 816
Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 10/28/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

DRYCLEAN LAKE CO DIST: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 04/29/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 05/11/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO COAST UNIFIED DIST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SIERRA DIST: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN NO SONOMA CO DIST: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 04/17/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB CO DIST: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA CO DIST: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 04/25/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA CO DIST: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 04/16/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 10/11/2023
Next Scheduled EDR Contact: 09/11/2023
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: 05/17/2023
Date Data Arrived at EDR: 05/18/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 83
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77
Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 04/24/2023
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 06/09/2023
Date Made Active in Reports: 08/30/2023
Number of Days to Update: 82
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/15/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 09/13/2023
Date Data Arrived at EDR: 09/14/2023
Date Made Active in Reports: 09/21/2023
Number of Days to Update: 7

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 09/13/2023
Next Scheduled EDR Contact: 01/29/2024
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: 05/04/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/16/2023
Number of Days to Update: 83

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 11/20/2023
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/16/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 85

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/14/2023
Next Scheduled EDR Contact: 11/27/2023
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: 05/15/2023
Date Data Arrived at EDR: 05/16/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/14/2023
Next Scheduled EDR Contact: 11/27/2023
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: 06/29/2023
Date Data Arrived at EDR: 06/29/2023
Date Made Active in Reports: 09/19/2023
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Quarterly

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: 08/04/2023
Date Data Arrived at EDR: 08/09/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
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: 12/31/2021
Date Data Arrived at EDR: 07/05/2022
Date Made Active in Reports: 09/19/2022
Number of Days to Update: 76

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/05/2022
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 05/08/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/16/2023
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Varies

NPDES: NPDES Permits Listing

A listing of NPDES permits, including stormwater.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 11/20/2023
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: 05/25/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/16/2023
Number of Days to Update: 83

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Quarterly

PROC: Certified Processors Database

A listing of certified processors.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 06/06/2023
Date Data Arrived at EDR: 06/07/2023
Date Made Active in Reports: 08/25/2023
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
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: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Annually

SANTA CRUZ CO SITE MITI: Site Mitigation Listing

Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: Varies

UIC: UIC Listing

A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 10/06/2023
Next Scheduled EDR Contact: 01/15/2024
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 09/12/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 06/02/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 08/23/2023
Number of Days to Update: 82

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 05/25/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 81

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 12/11/2023
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: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/06/2023
Number of Days to Update: 80

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 06/05/2023
Date Data Arrived at EDR: 06/05/2023
Date Made Active in Reports: 08/28/2023
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 06/27/2023
Date Data Arrived at EDR: 06/28/2023
Date Made Active in Reports: 09/14/2023
Number of Days to Update: 78

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 06/27/2023
Date Data Arrived at EDR: 06/28/2023
Date Made Active in Reports: 09/14/2023
Number of Days to Update: 78

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/12/2023
Next Scheduled EDR Contact: 01/01/2024
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: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 07/05/2023
Date Data Arrived at EDR: 07/20/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 77

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 08/02/2023
Date Data Arrived at EDR: 08/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 77

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
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: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 09/28/2023
Next Scheduled EDR Contact: 01/08/2024
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: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 07/12/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 76

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 13

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 07/26/2023
Date Data Arrived at EDR: 07/27/2023
Date Made Active in Reports: 08/03/2023
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 05/31/2023
Number of Days to Update: 34

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/22/2024
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: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 06/21/2023
Date Data Arrived at EDR: 06/28/2023
Date Made Active in Reports: 09/14/2023
Number of Days to Update: 78

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 09/27/2023
Next Scheduled EDR Contact: 01/15/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 07/10/2023
Date Data Arrived at EDR: 07/10/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 79

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 10/09/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/19/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/20/2023
Date Data Arrived at EDR: 06/22/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 48

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/20/2023
Date Data Arrived at EDR: 06/22/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 82

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/20/2023
Next Scheduled EDR Contact: 01/01/2024
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: 03/02/2023
Date Data Arrived at EDR: 04/18/2023
Date Made Active in Reports: 07/07/2023
Number of Days to Update: 80

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/22/2024
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: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 04/12/2023
Date Data Arrived at EDR: 05/02/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 42

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 09/21/2023
Next Scheduled EDR Contact: 01/08/2024
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: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/25/2023
Date Data Arrived at EDR: 08/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 77

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/25/2023
Next Scheduled EDR Contact: 11/27/2023
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: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 01/08/2024
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: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
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: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 07/21/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 07/31/2023
Date Made Active in Reports: 08/09/2023
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 11/13/2023
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 04/01/2023
Date Data Arrived at EDR: 05/18/2023
Date Made Active in Reports: 06/14/2023
Number of Days to Update: 27

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 08/03/2023
Next Scheduled EDR Contact: 11/13/2023
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: 08/26/2022
Date Data Arrived at EDR: 08/29/2022
Date Made Active in Reports: 11/15/2022
Number of Days to Update: 78

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 07/31/2023
Next Scheduled EDR Contact: 12/11/2023
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: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 07/10/2023
Date Data Arrived at EDR: 07/11/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 07/10/2023
Date Data Arrived at EDR: 07/11/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 77

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/25/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/25/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 05/02/2023
Date Data Arrived at EDR: 05/04/2023
Date Made Active in Reports: 07/25/2023
Number of Days to Update: 82

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 10/18/2023
Next Scheduled EDR Contact: 02/12/2024
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: 05/09/2023
Date Data Arrived at EDR: 05/10/2023
Date Made Active in Reports: 08/01/2023
Number of Days to Update: 83

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 10/26/2023
Next Scheduled EDR Contact: 02/12/2024
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: 05/25/2023
Date Data Arrived at EDR: 05/25/2023
Date Made Active in Reports: 08/16/2023
Number of Days to Update: 83

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/29/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 04/04/2023
Date Data Arrived at EDR: 04/05/2023
Date Made Active in Reports: 06/27/2023
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 08/04/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/26/2023
Number of Days to Update: 79

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 08/04/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/25/2023
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 07/17/2023
Date Data Arrived at EDR: 07/18/2023
Date Made Active in Reports: 10/05/2023
Number of Days to Update: 79

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 10/17/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

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: 09/07/2023
Next Scheduled EDR Contact: 12/25/2023
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 08/09/2023
Date Data Arrived at EDR: 08/10/2023
Date Made Active in Reports: 10/27/2023
Number of Days to Update: 78

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 09/08/2023
Next Scheduled EDR Contact: 12/18/2023
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: 08/29/2023
Next Scheduled EDR Contact: 12/18/2023
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/10/2023
Date Data Arrived at EDR: 05/11/2023
Date Made Active in Reports: 07/31/2023
Number of Days to Update: 81
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 08/15/2023
Next Scheduled EDR Contact: 12/04/2023
Data Release Frequency: No Update Planned

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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 08/09/2023
Next Scheduled EDR Contact: 11/27/2023
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: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
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: 09/12/2023
Next Scheduled EDR Contact: 01/01/2024
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: 09/12/2023
Next Scheduled EDR Contact: 01/01/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 10/04/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 08/03/2023
Date Data Arrived at EDR: 08/24/2023
Date Made Active in Reports: 09/12/2023
Number of Days to Update: 19

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/22/2023
Next Scheduled EDR Contact: 12/11/2023
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 08/01/2023
Date Data Arrived at EDR: 08/02/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 78

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 07/12/2023
Date Made Active in Reports: 09/26/2023
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 10/25/2023
Next Scheduled EDR Contact: 02/12/2024
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: 10/10/2023
Next Scheduled EDR Contact: 01/29/2024
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: 06/26/2023
Date Data Arrived at EDR: 07/20/2023
Date Made Active in Reports: 10/03/2023
Number of Days to Update: 75

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/16/2023
Next Scheduled EDR Contact: 01/29/2024
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: 09/21/2023
Next Scheduled EDR Contact: 01/08/2024
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: 08/02/2023
Next Scheduled EDR Contact: 11/20/2023
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: 06/26/2023
Date Data Arrived at EDR: 07/25/2023
Date Made Active in Reports: 10/13/2023
Number of Days to Update: 80

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 10/16/2023
Next Scheduled EDR Contact: 01/29/2024
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: 05/26/2023
Date Data Arrived at EDR: 06/02/2023
Date Made Active in Reports: 06/14/2023
Number of Days to Update: 12

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/06/2023
Next Scheduled EDR Contact: 12/18/2023
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: 04/03/2023
Date Data Arrived at EDR: 04/18/2023
Date Made Active in Reports: 06/13/2023
Number of Days to Update: 56

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/21/2023
Next Scheduled EDR Contact: 01/08/2024
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 07/26/2023
Date Made Active in Reports: 10/11/2023
Number of Days to Update: 77

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 10/20/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/07/2023
Date Data Arrived at EDR: 08/08/2023
Date Made Active in Reports: 10/24/2023
Number of Days to Update: 77

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/08/2023
Next Scheduled EDR Contact: 11/20/2023
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: 09/28/2023
Next Scheduled EDR Contact: 01/15/2024
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: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 10/28/2023
Next Scheduled EDR Contact: 02/05/2024
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 10/05/2023
Next Scheduled EDR Contact: 01/22/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/10/2022
Next Scheduled EDR Contact: 11/27/2023
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: 08/30/2023
Next Scheduled EDR Contact: 12/18/2023
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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, 2010 and 2015 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

EWIIAAPAAYP FEE-TO-TRUST
4221 ALPINE BOULEVARD
ALPINE, CA 91901

TARGET PROPERTY COORDINATES

Latitude (North):	32.83154 - 32° 49' 53.54''
Longitude (West):	116.72288 - 116° 43' 22.37''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	525937.1
UTM Y (Meters):	3632455.2
Elevation:	2241 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	12008273 VIEJAS MOUNTAIN, CA
Version Date:	2018

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).

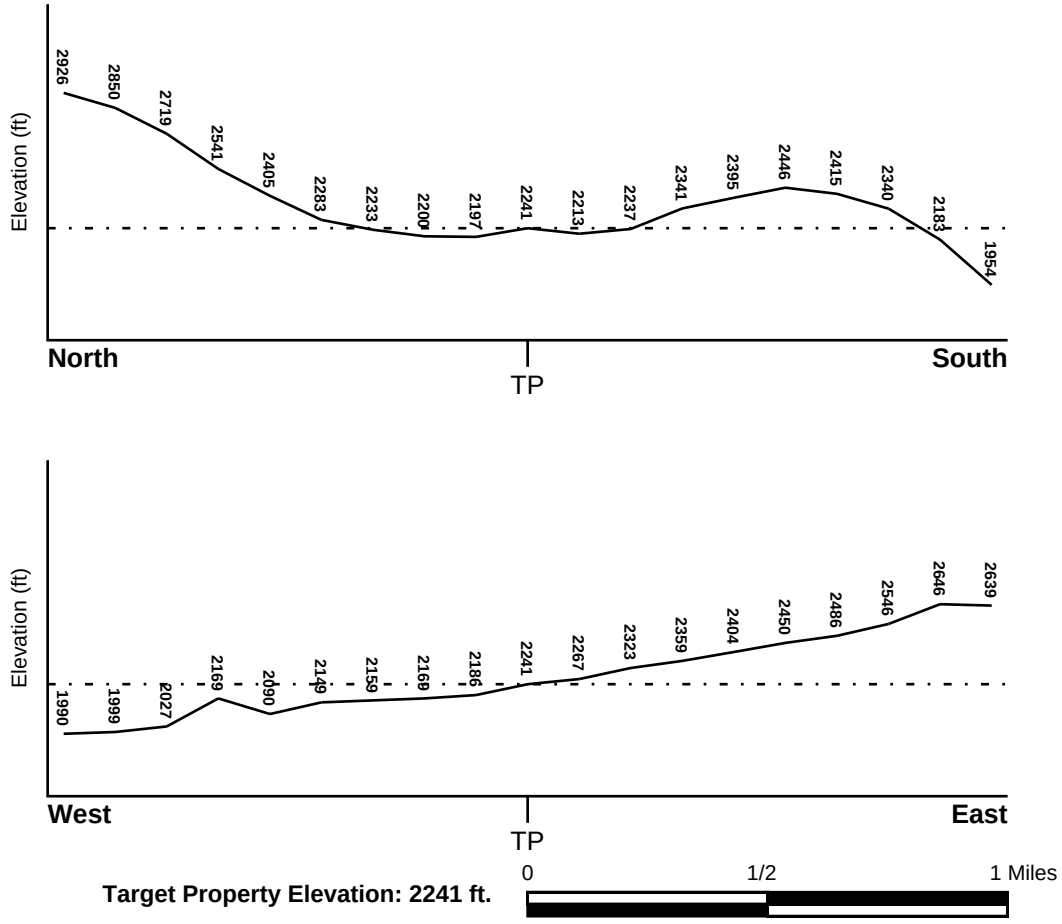
TOPOGRAPHIC INFORMATION

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 WNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06073C1725G	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
VIEJAS MOUNTAIN	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

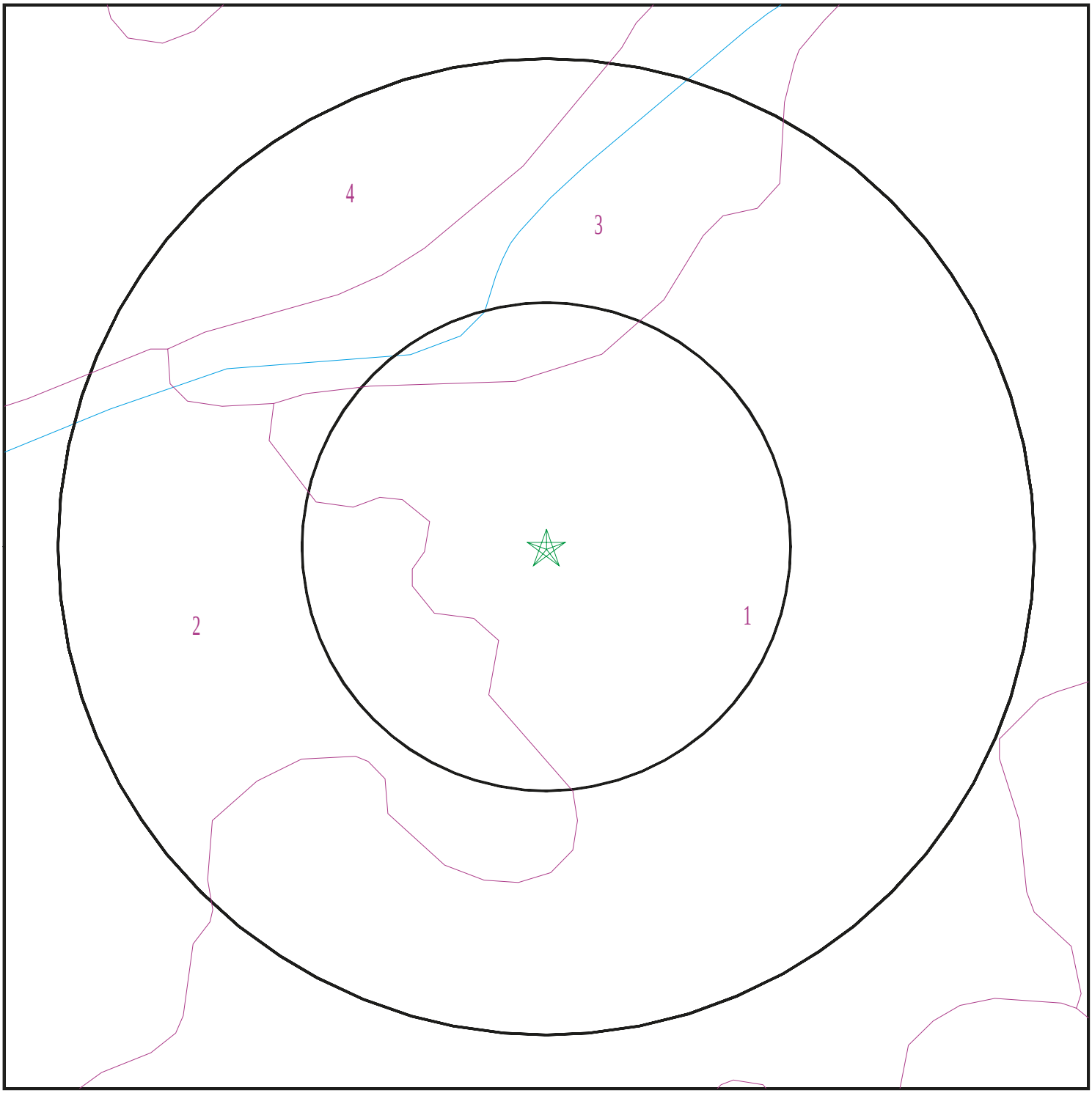
Era:	Mesozoic
System:	Cretaceous
Series:	Cretaceous granitic rocks
Code:	Kg *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Plutonic and Intrusive Rocks

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 - 7483840.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	Ewiiaapaayp Fee-to-Trust	CLIENT:	Acorn Environmental
ADDRESS:	4221 Alpine Boulevard Alpine CA 91901	CONTACT:	David Sawyer
		INQUIRY #:	7483840.2s
LAT/LONG:	32.83154 / 116.72288	DATE:	October 30, 2023 2:00 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: FALLBROOK

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	5 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
2	5 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
3	11 inches	27 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
4	27 inches	46 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:
5	46 inches	51 inches	weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:

Soil Map ID: 2

Soil Component Name: GREENFIELD

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: 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	5 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	5 inches	33 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6
3	33 inches	66 inches	stratified loamy coarse sand to sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 6.6

Soil Map ID: 3

Soil Component Name: VISALIA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	40 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
3	40 inches	59 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1

Soil Map ID: 4

Soil Component Name: VISALIA

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	11 inches	40 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1
3	40 inches	59 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 42 Min: 14	Max: 6.5 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

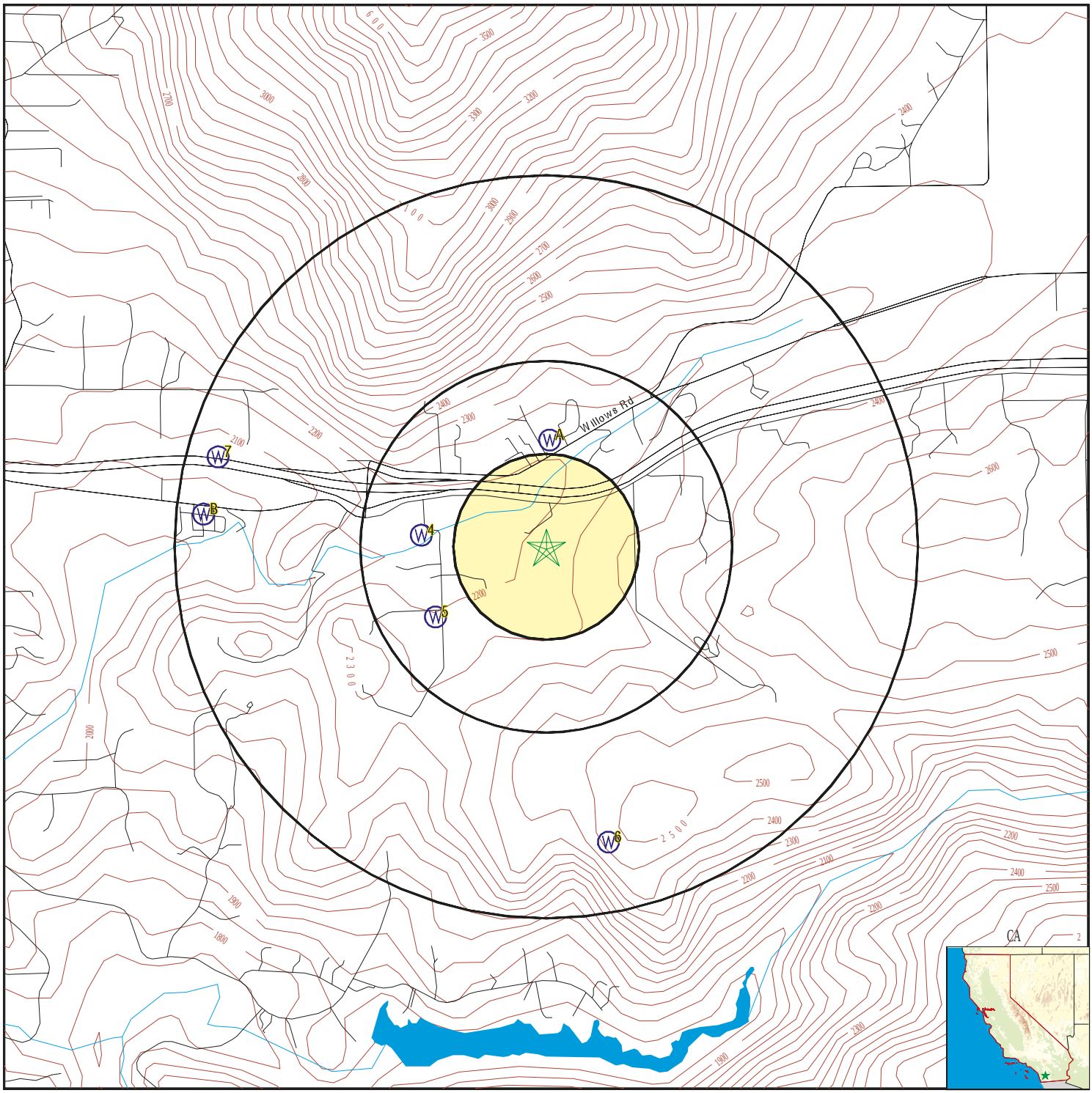
Note: PWS System location is not always the same as well location.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	12776	1/4 - 1/2 Mile North
A2	CADDW0000010675	1/4 - 1/2 Mile North
A3	CADDW0000016292	1/4 - 1/2 Mile North
4	12777	1/4 - 1/2 Mile West
5	CAGAMA000000655	1/4 - 1/2 Mile WSW
6	CADDW0000016569	1/2 - 1 Mile SSE
7	12778	1/2 - 1 Mile WNW
B8	12779	1/2 - 1 Mile West
B9	CADDW0000015044	1/2 - 1 Mile West

PHYSICAL SETTING SOURCE MAP - 7483840.2s



- 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:	Ewiiaapaayp Fee-to-Trust	CLIENT:	Acorn Environmental
ADDRESS:	4221 Alpine Boulevard Alpine CA 91901	CONTACT:	David Sawyer
		INQUIRY #:	7483840.2s
LAT/LONG:	32.83154 / 116.72288	DATE:	October 30, 2023 2:00 pm

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Map ID
Direction
Distance
Elevation

Database	EDR ID Number
CA WELLS	**12776**

A1
North
1/4 - 1/2 Mile
Lower

Seq:	12776	Prim sta c:	15S/02E-25J03 S
Frds no:	3701995001	County:	37
District:	67	User id:	37C
System no:	3701995	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	325007.0	Longitude:	1164320.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3701995	System nam:	Willowside Terrace W Assn
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		
Sample date:	05-JAN-18	Finding:	13.7
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-DEC-17	Finding:	7.62
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-NOV-17	Finding:	5.2
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JAN-17	Finding:	8.32
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	03-JUN-16	Finding:	12.
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	01-APR-16	Finding:	6.8
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	02-JUN-15	Finding:	0.418
Chemical:	RADIUM, TOTAL, MDA95-NTNC ONLY, BY 903.0		
Report units:	PCI/L	Dlr:	0.
Sample date:	02-JUN-15	Finding:	0.199
Chemical:	RA-226 OR TOTAL RA BY 903.0 C.E.	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	0.101
Chemical:	RA-226 FOR CWS OR TOTAL RA FOR NTNC BY 903.0		
Report units:	PCI/L	Dlr:	0.

Sample date:	02-JUN-15	Finding:	0.2
Chemical:	RADIUM 228 MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	0.3
Chemical:	URANIUM MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	1.67
Chemical:	GROSS ALPHA MDA95	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	0.671
Chemical:	URANIUM COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	0.455
Chemical:	RADIUM 228 COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	02-JUN-15	Finding:	1.83
Chemical:	GROSS ALPHA COUNTING ERROR	Report units:	PCI/L
Dlr:	0.		
Sample date:	01-APR-15	Finding:	4.1
Chemical:	BROMOFORM (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-APR-15	Finding:	1.1
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-APR-15	Finding:	5.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-APR-15	Finding:	2.
Chemical:	DIBROMOACETIC ACID (DBAA)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-APR-15	Finding:	2.
Chemical:	HALOACETIC ACIDS (5) (HAA5)	Report units:	UG/L
Dlr:	0.		
Sample date:	02-FEB-15	Finding:	20.6
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	05-JAN-15	Finding:	32.1
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-DEC-14	Finding:	29.8
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	01-APR-13	Finding:	1.1
Chemical:	DIBROMOACETIC ACID (DBAA)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-APR-13	Finding:	2.8
Chemical:	BROMOFORM (THM)	Report units:	UG/L

Dlr:	1.		
Sample date:	01-APR-13	Finding:	1.4
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	01-APR-13	Finding:	4.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	01-APR-13	Finding:	1.1
Chemical:	HALOACETIC ACIDS (5) (HAA5)	Report units:	UG/L
Dlr:	0.		

A2
North
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000010675**

Well ID:	3701995-002	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 02	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3701995-002&store_num=		
GeoTracker Data:	Not Reported		

A3
North
1/4 - 1/2 Mile
Lower

CA WELLS **CADDW0000016292**

Well ID:	3701995-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3701995-001&store_num=		
GeoTracker Data:	Not Reported		

4
West
1/4 - 1/2 Mile
Lower

CA WELLS **12777**

Seq:	12777	Prim sta c:	15S/02E-25P02 S
Frds no:	3700004001	County:	37
District:	67	User id:	37C
System no:	3700004	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	324955.0	Longitude:	1164340.0
Precision:	3	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		
System no:	3700004	System nam:	Willows Association
Hqname:	Not Reported	Address:	Not Reported

City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

5
WSW **CA WELLS** **CAGAMA000000655**
1/4 - 1/2 Mile
Lower

Well ID:	SD 907	Well Type:	DOMESTIC
Source:	Groundwater Ambient Monitoring and Assessment Program		
Other Name:	SD 907	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=GAMA&samp_date=&global_id=&assigned_name=SD 907&store_num=		
GeoTracker Data:	Not Reported		

6
SSE **CA WELLS** **CADDW0000016569**
1/2 - 1 Mile
Higher

Well ID:	3700004-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01 - INACTIVE	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3700004-001&store_num=		
GeoTracker Data:	Not Reported		

7
WNW **CA WELLS** **12778**
1/2 - 1 Mile
Lower

Seq:	12778	Prim sta c:	15S/02E-26J01 S
Frds no:	3701935001	County:	37
District:	67	User id:	37C
System no:	3701935	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	325006.0	Longitude:	1164414.0
Precision:	2	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:	3701935	System nam:	Alpine Mountain Wc
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

B8
West
1/2 - 1 Mile
Lower

CA WELLS **12779**

Seq:	12779	Prim sta c:	15S/02E-26R01 S
Frds no:	3701988001	County:	37
District:	67	User id:	37C
System no:	3701988	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	324958.0	Longitude:	1164416.0
Precision:	2	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:	3701988	System nam:	Alpine Oaks Mobile Estates
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported
Pop serv:	0	Connection:	0
Area serve:	Not Reported		

Sample date:	20-APR-17	Finding:	2.9
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	16-JUN-16	Finding:	3.3
Chemical:	NITRATE (AS N)	Report units:	MG/L
Dlr:	0.4		

Sample date:	16-APR-15	Finding:	58.
Chemical:	ZINC	Report units:	UG/L
Dlr:	50.		

Sample date:	16-APR-15	Finding:	20.
Chemical:	SULFATE	Report units:	MG/L
Dlr:	0.5		

Sample date:	16-APR-15	Finding:	83.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		

Sample date:	16-APR-15	Finding:	2.1
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	16-APR-15	Finding:	27.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	16-APR-15	Finding:	53.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	16-APR-15	Finding:	53.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		

Sample date:	16-APR-15	Finding:	350.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	16-APR-15	Finding:	340.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	16-APR-15	Finding:	280.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	16-APR-15	Finding:	7.3
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	16-APR-15	Finding:	800.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	16-APR-15	Finding:	530.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	16-APR-15	Finding:	3500.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	19-APR-12	Finding:	21.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAR-12	Finding:	5700.
Chemical:	NITRATE + NITRITE (AS N)	Report units:	MG/L
Dlr:	0.4		
Sample date:	15-MAR-12	Finding:	2.2
Chemical:	TOTAL TRIHALOMETHANES	Report units:	UG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	1.6
Chemical:	TURBIDITY, LABORATORY	Report units:	NTU
Dlr:	0.1		
Sample date:	15-MAR-12	Finding:	25.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	15-MAR-12	Finding:	590.
Chemical:	TOTAL DISSOLVED SOLIDS	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	1.2
Chemical:	DIBROMOCHLOROMETHANE (THM)	Report units:	UG/L
Dlr:	1.		
Sample date:	15-MAR-12	Finding:	60.
Chemical:	MANGANESE	Report units:	UG/L
Dlr:	20.		
Sample date:	15-MAR-12	Finding:	24.
Chemical:	SULFATE	Report units:	MG/L

Dlr:	0.5		
Sample date:	15-MAR-12	Finding:	120.
Chemical:	CHLORIDE	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	2.
Chemical:	POTASSIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	41.
Chemical:	SODIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	54.
Chemical:	MAGNESIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	69.
Chemical:	CALCIUM	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	370.
Chemical:	HARDNESS (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	340.
Chemical:	BICARBONATE ALKALINITY	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	280.
Chemical:	ALKALINITY (TOTAL) AS CACO3	Report units:	MG/L
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	7.1
Chemical:	PH, LABORATORY	Report units:	Not Reported
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	860.
Chemical:	SPECIFIC CONDUCTANCE	Report units:	US
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	13.
Chemical:	SOURCE TEMPERATURE C	Report units:	C
Dlr:	0.		
Sample date:	15-MAR-12	Finding:	7.5
Chemical:	COLOR	Report units:	UNITS
Dlr:	0.		

B9
West
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000015044**

Well ID:	3701988-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3701988-001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91901	9	0

Federal EPA Radon Zone for SAN DIEGO 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 DIEGO COUNTY, CA

Number of sites tested: 30

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.677 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.400 pCi/L	100%	0%	0%
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 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

Historical Aerial Photographs

Ewiiaapaayp Fee-to-Trust

4221 Alpine Boulevard

Alpine, CA 91901

Inquiry Number: 7483840.11

October 30, 2023

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

10/30/23

Site Name:

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901
EDR Inquiry # 7483840.11

Client Name:

Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762
Contact: David Sawyer

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
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1996	1"=500'	Acquisition Date: January 01, 1996	USGS/DOQQ
1994	1"=500'	Acquisition Date: January 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1985	1"=500'	Flight Date: July 29, 1985	USDA
1979	1"=500'	Flight Date: January 27, 1979	EDR Proprietary Landiscor
1964	1"=500'	Flight Date: April 08, 1964	USDA
1953	1"=500'	Flight Date: April 14, 1953	USDA
1949	1"=500'	Flight Date: April 21, 1949	USDA
1928	1"=500'	Flight Date: November 01, 1928	EDR Proprietary Landiscor

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INQUIRY #: 7483840.11
YEAR: 2020
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 2012
= 500'
N
EDR

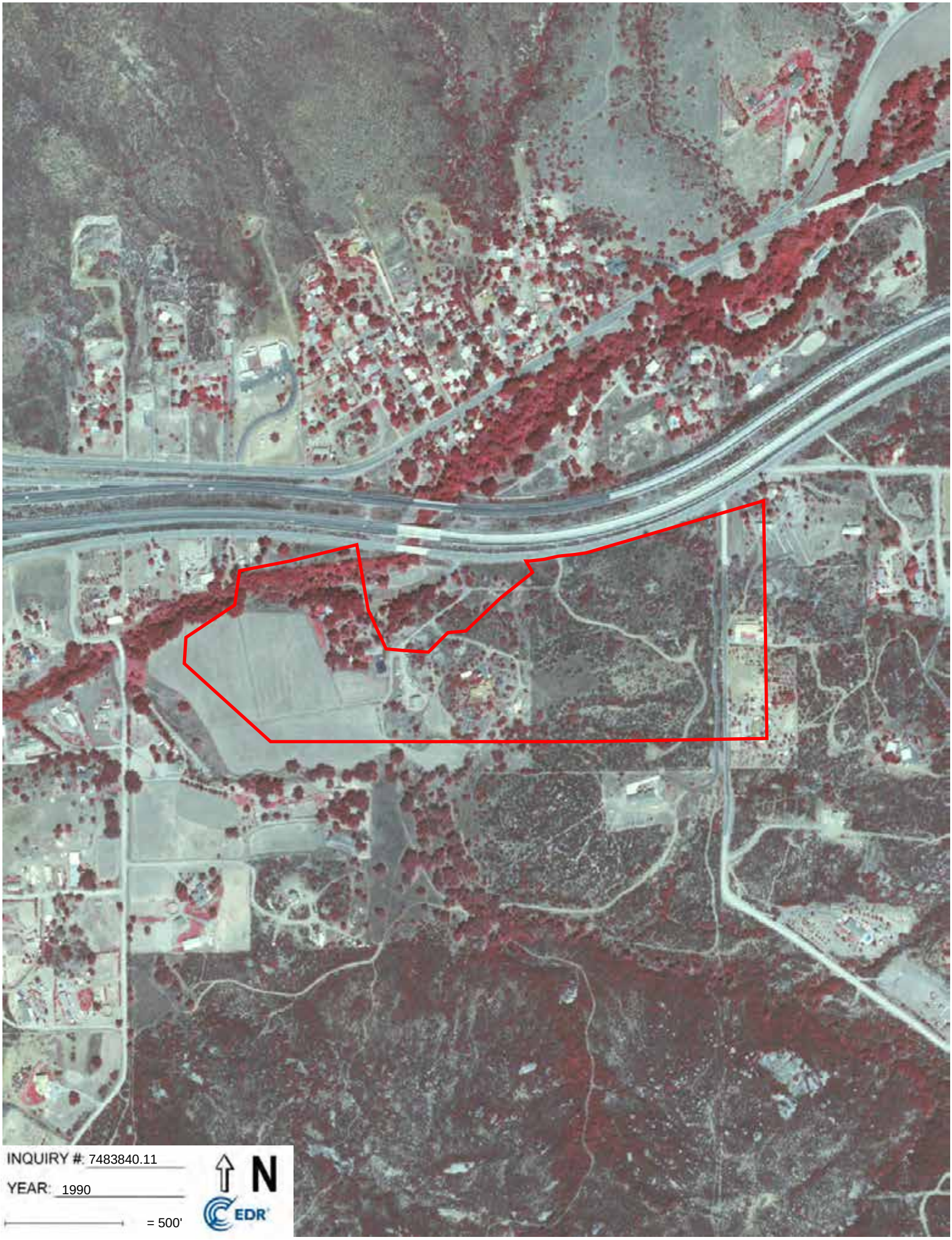

INQUIRY #: 7483840.11
YEAR: 2009
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 2005
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 2002
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1996
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1994
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1990
= 500'
N
EDR

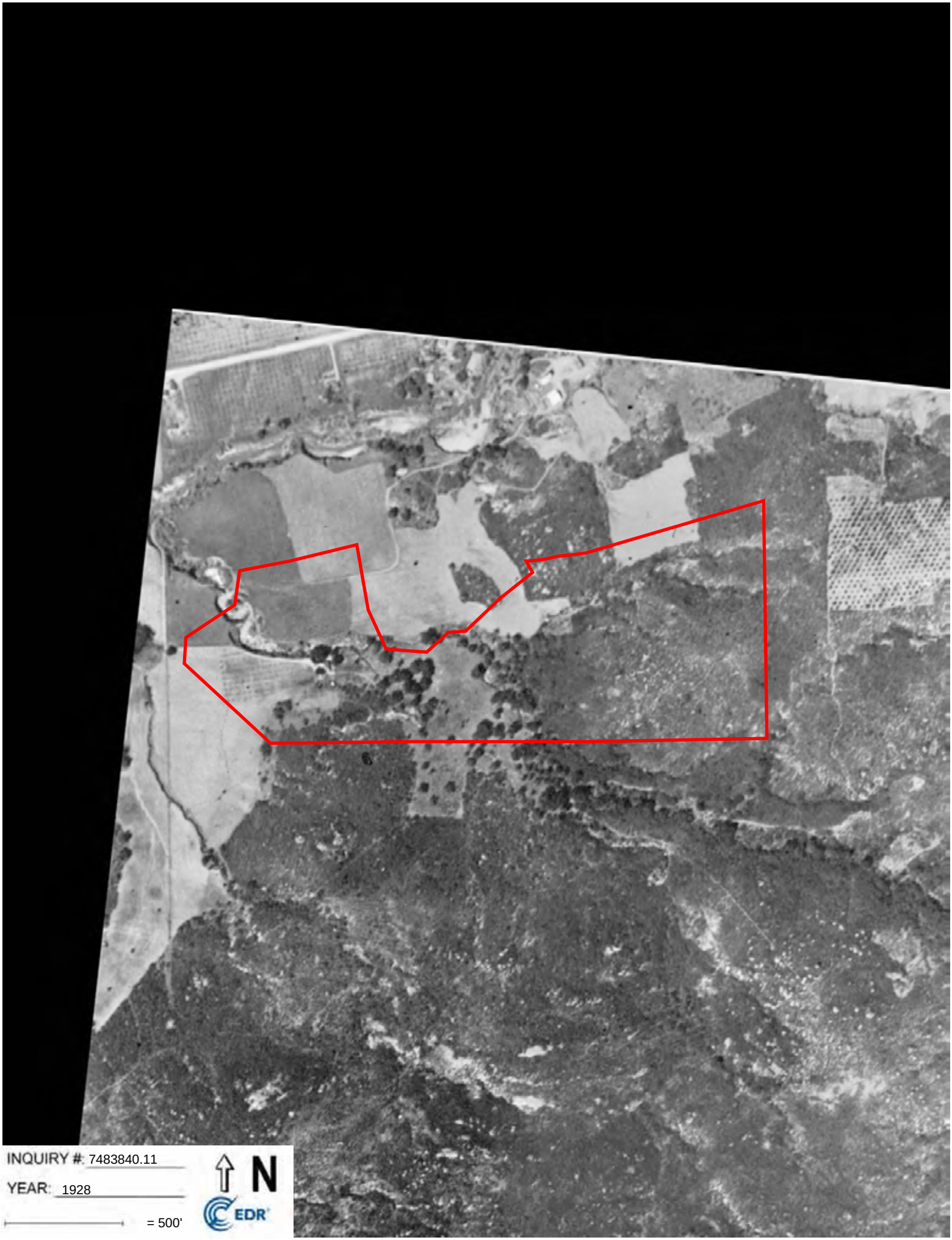

INQUIRY #: 7483840.11
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1979
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1964
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1953
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1949
= 500'
N
EDR


INQUIRY #: 7483840.11
YEAR: 1928
= 500'
N
EDR

Appendix C

Historical Topographic Maps

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.4
October 30, 2023

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

10/30/23

Site Name:

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901
EDR Inquiry # 7483840.4

Client Name:

Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762
Contact: David Sawyer

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Acorn Environmental 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.#

Project:

Coordinates:

Latitude:

Longitude:

UTM Zone:

UTM X Meters:

UTM Y Meters:

Elevation:

Maps Provided:

2018	1942
2015	1903
2012	
1997	
1988	
1982	
1960	
1944	

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2018 Source Sheets



Viejas Mountain
2018
7.5-minute, 24000

2015 Source Sheets



Viejas Mountain
2015
7.5-minute, 24000

2012 Source Sheets



Viejas Mountain
2012
7.5-minute, 24000

1997 Source Sheets



Viejas Mountain
1997
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1988 Source Sheets



Viejas Mountain
1988
7.5-minute, 24000
Aerial Photo Revised 1985

1982 Source Sheets



Viejas Mountain
1982
7.5-minute, 24000
Aerial Photo Revised 1980

1960 Source Sheets



Viejas Mountain
1960
7.5-minute, 24000
Aerial Photo Revised 1954

1944 Source Sheets



Cuyamaca Peak
1944
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets



Cuyamaca Peak
1942
15-minute, 62500

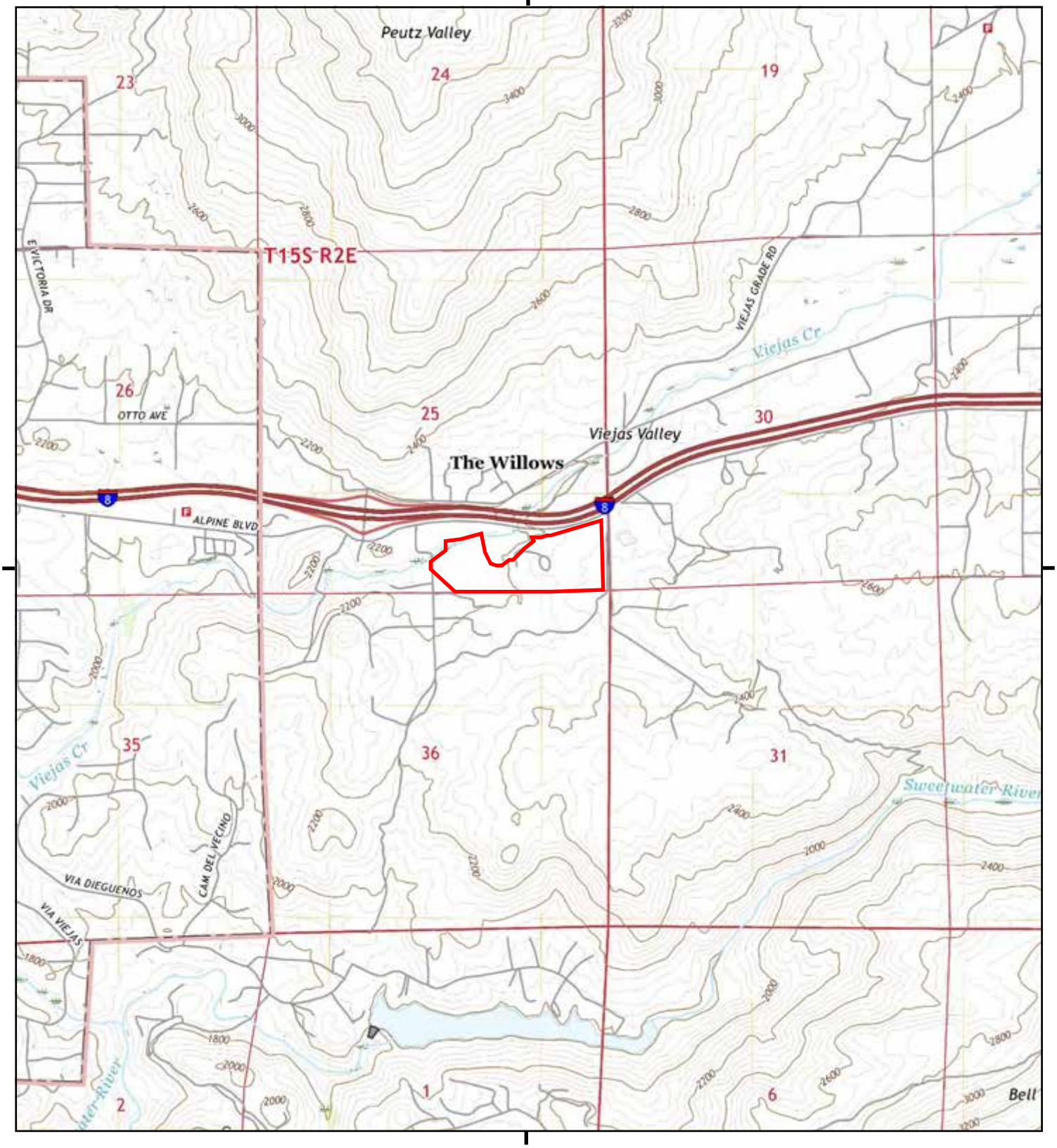
1903 Source Sheets



Cuyamaca
1903
30-minute, 125000

Historical Topo Map

2018



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

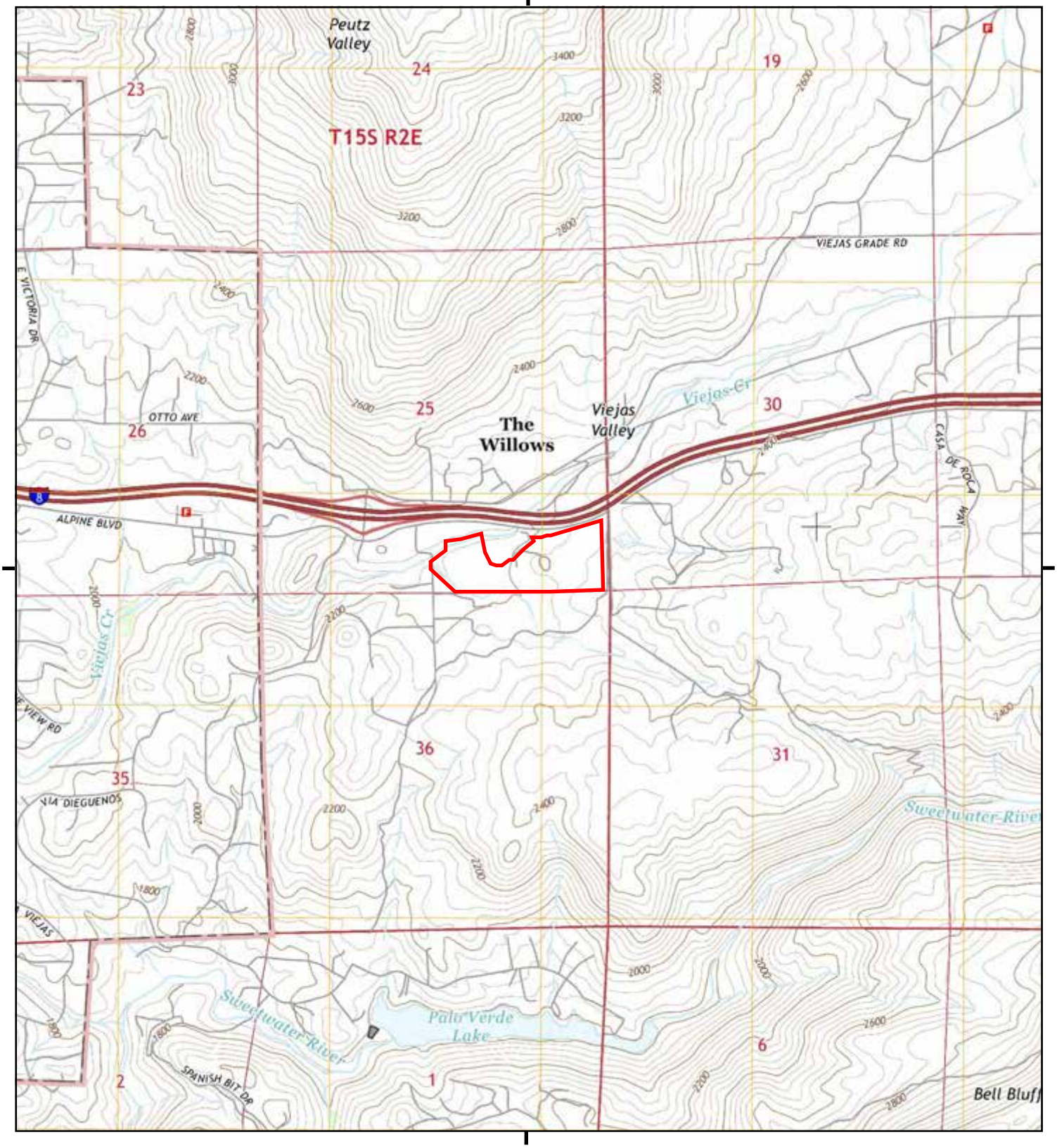
TP, Viejas Mountain, 2018, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Historical Topo Map

2015



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

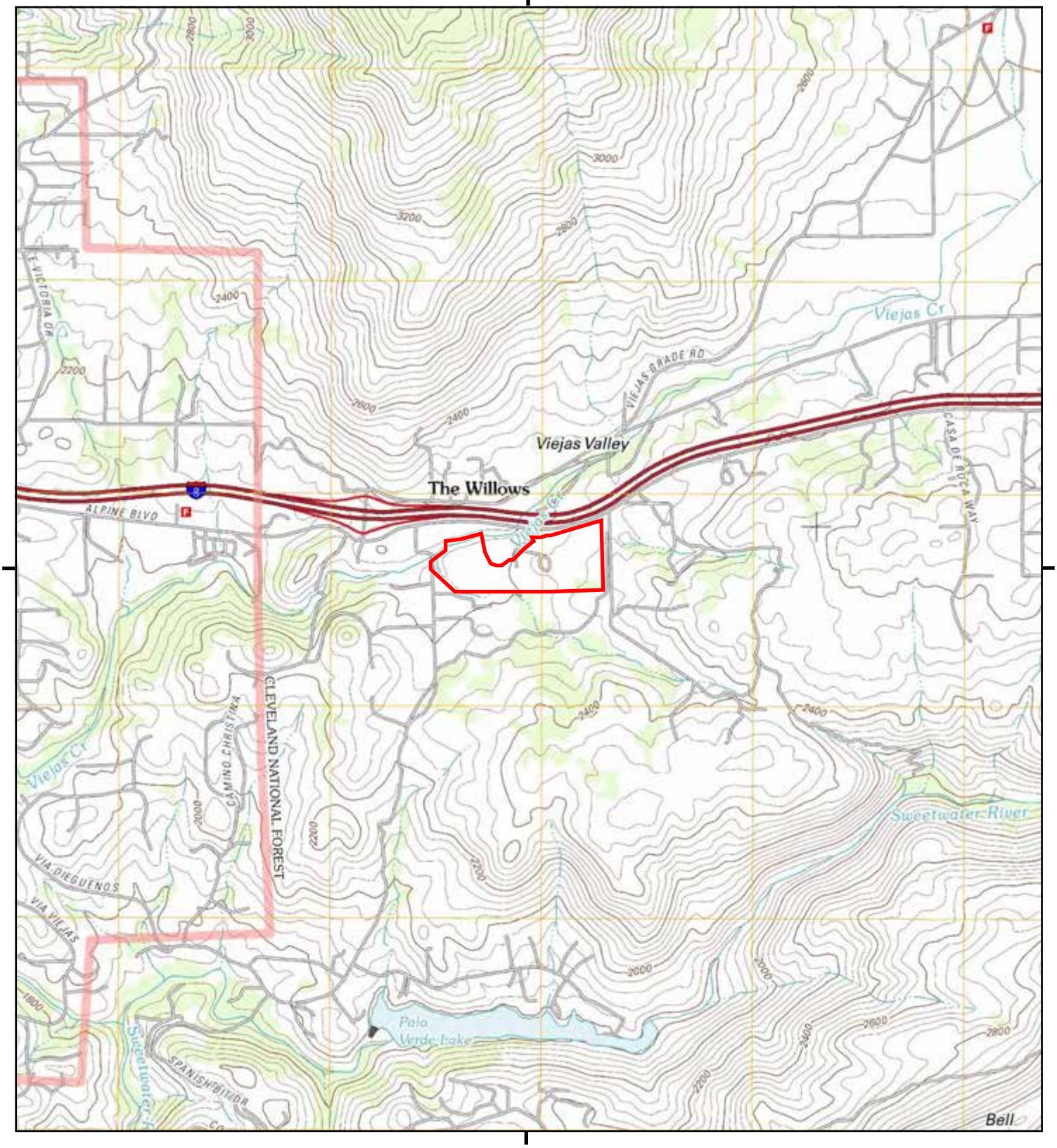
TP, Viejas Mountain, 2015, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Historical Topo Map

2012



This report includes information from the following map sheet(s).

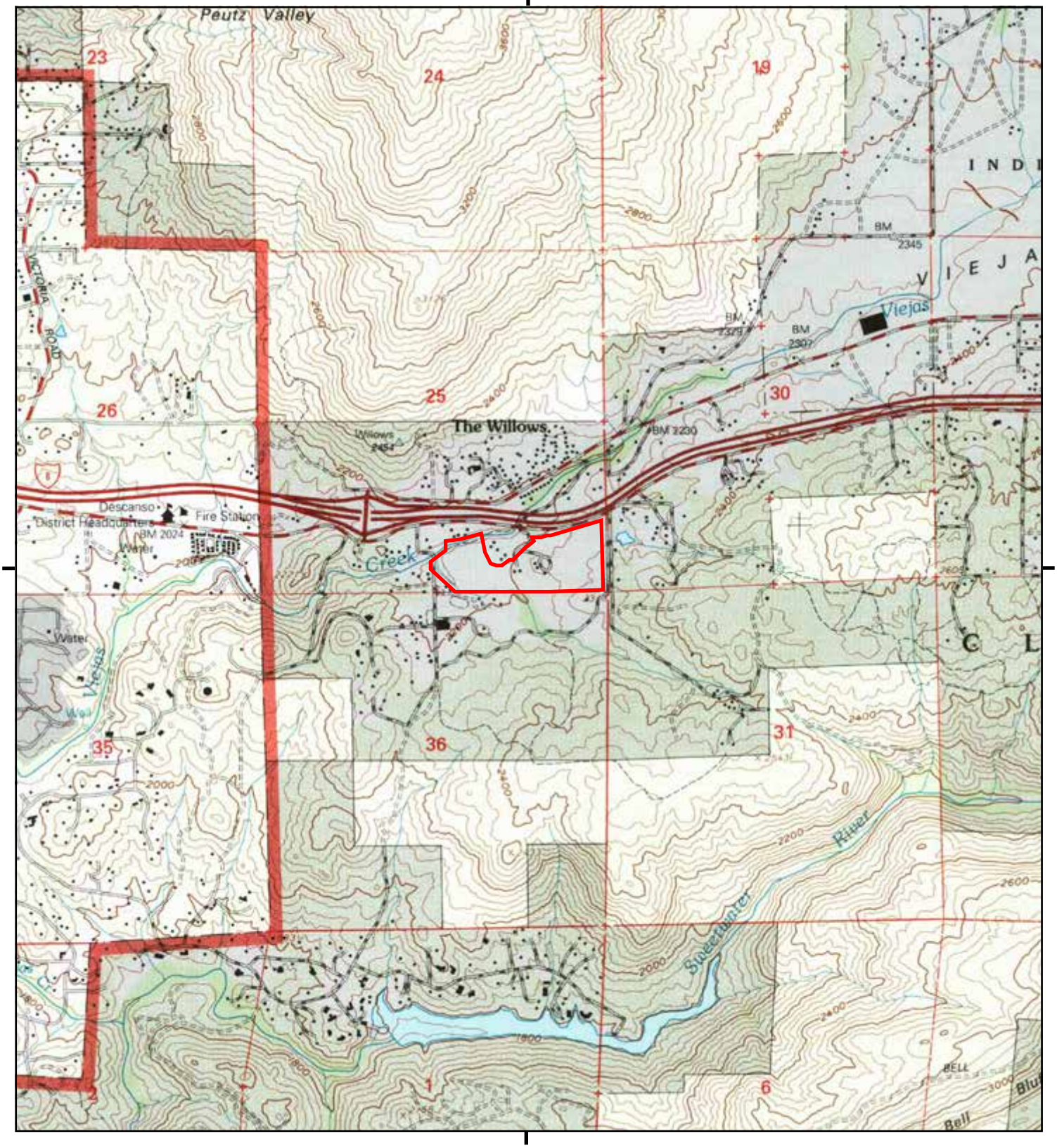
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Viejas Mountain, 2012, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

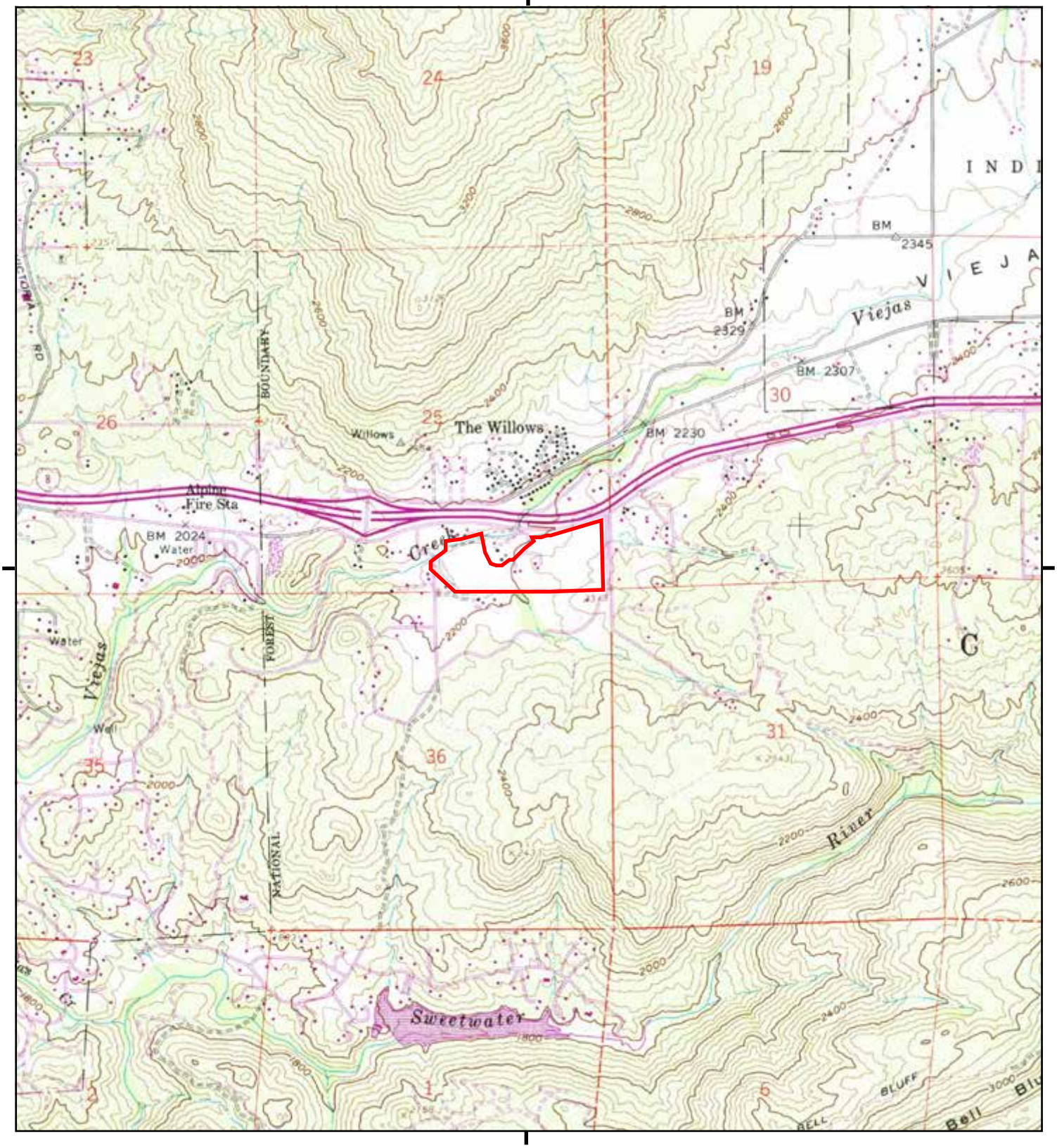
TP, Viejas Mountain, 1997, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Historical Topo Map

1988



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

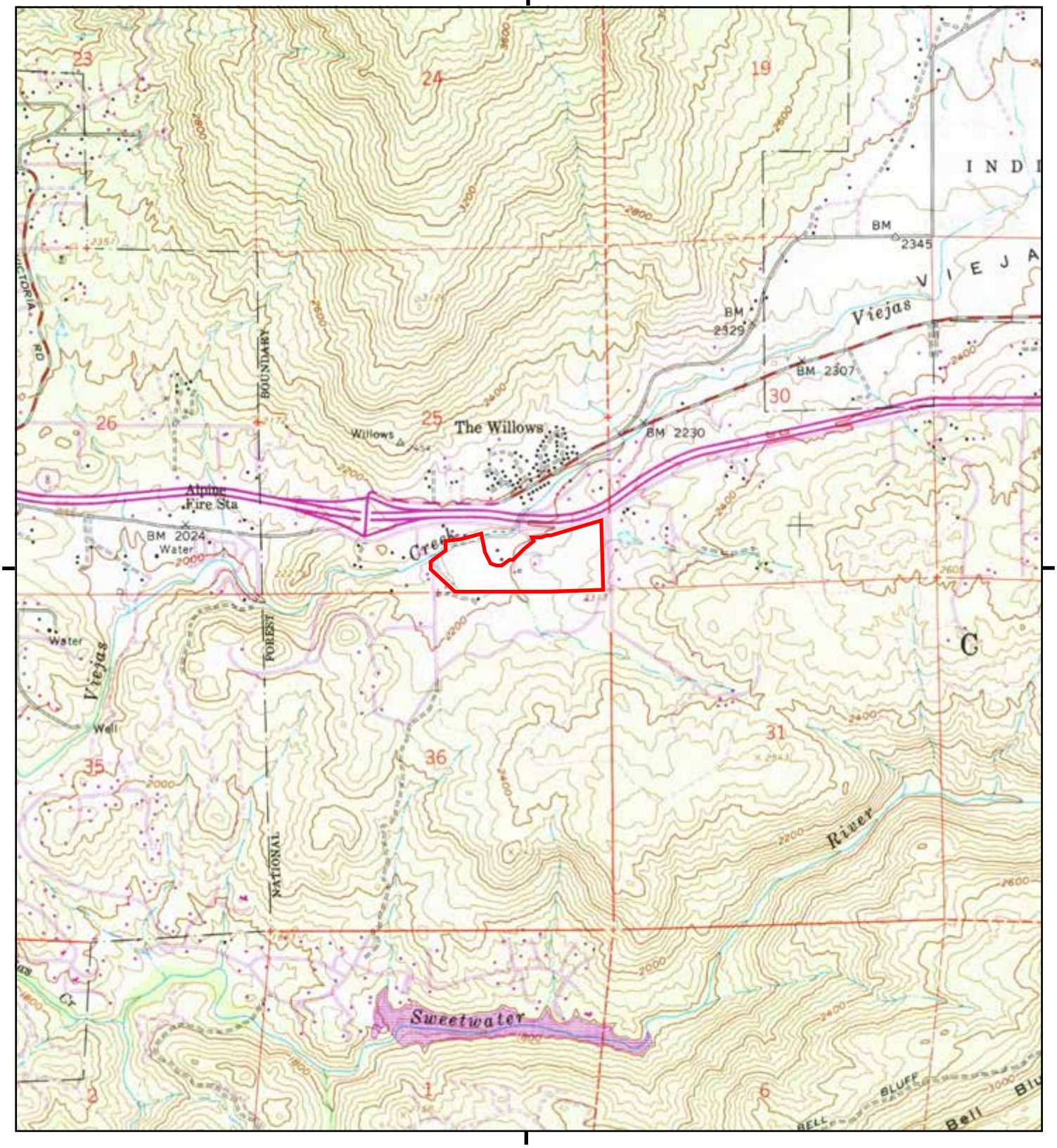
TP, Viejas Mountain, 1988, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Historical Topo Map

1982



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

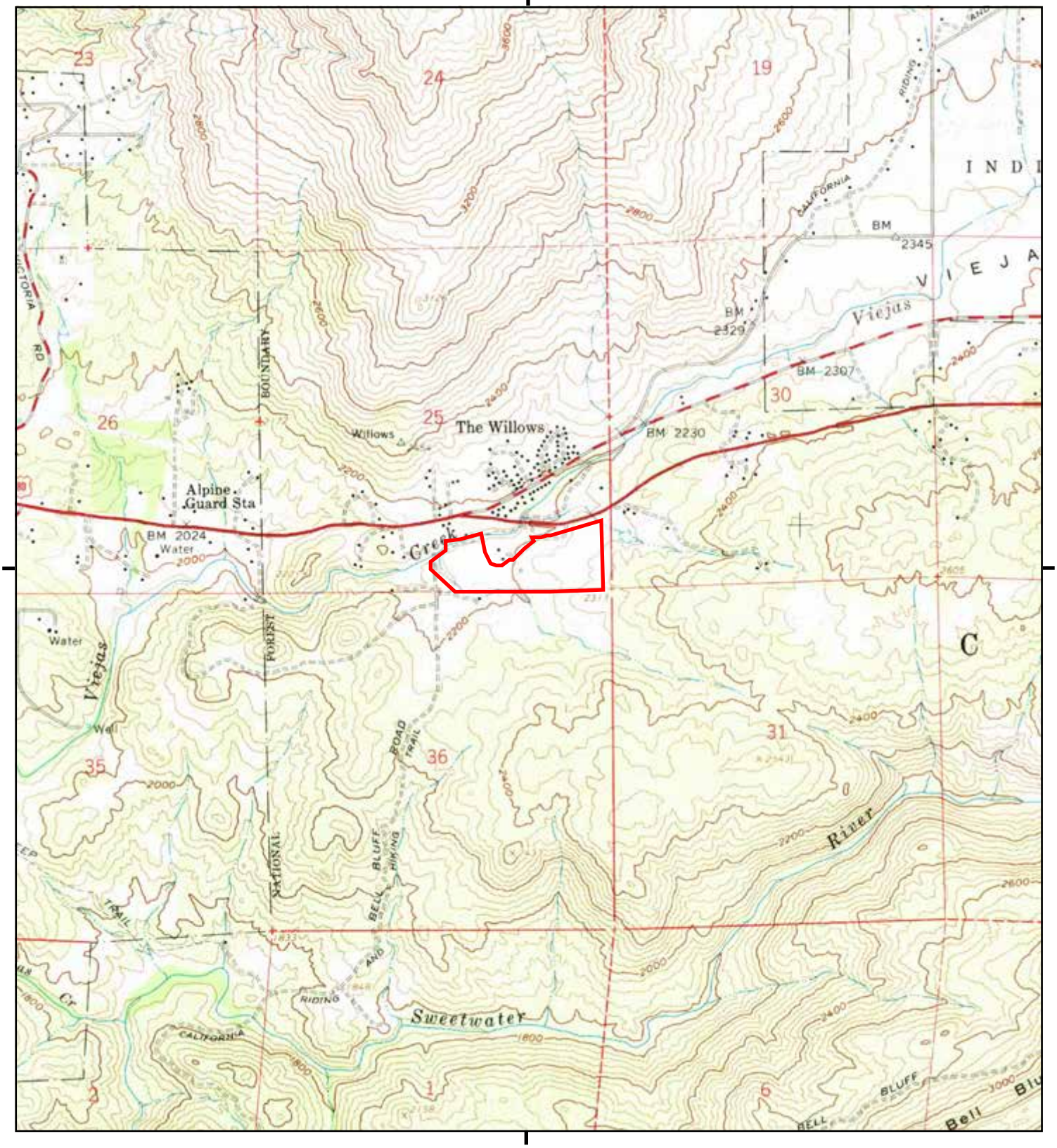
TP, Viejas Mountain, 1982, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Historical Topo Map

1960



This report includes information from the following map sheet(s).

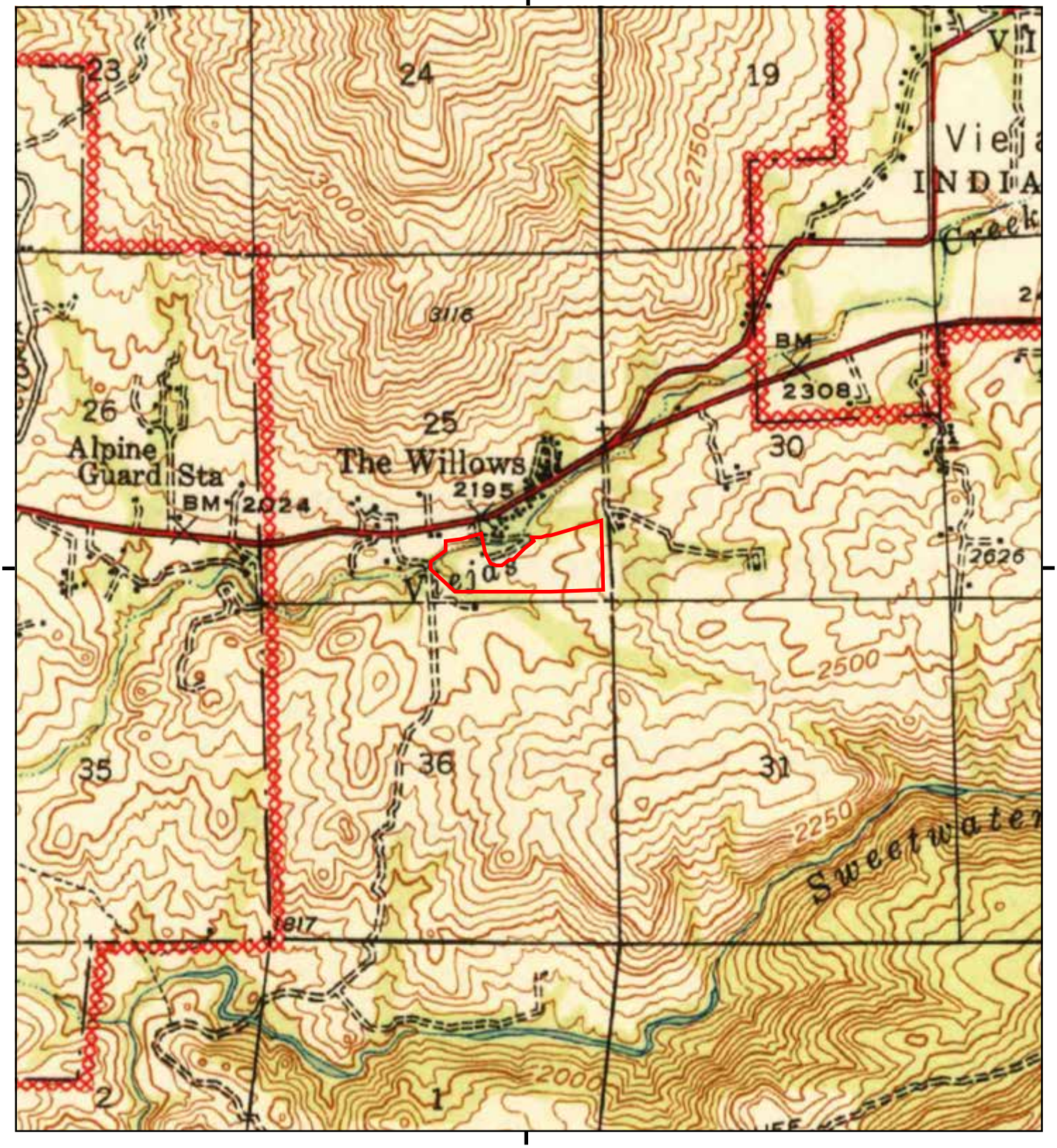
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Viejas Mountain, 1960, 7.5-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N



This report includes information from the following map sheet(s).

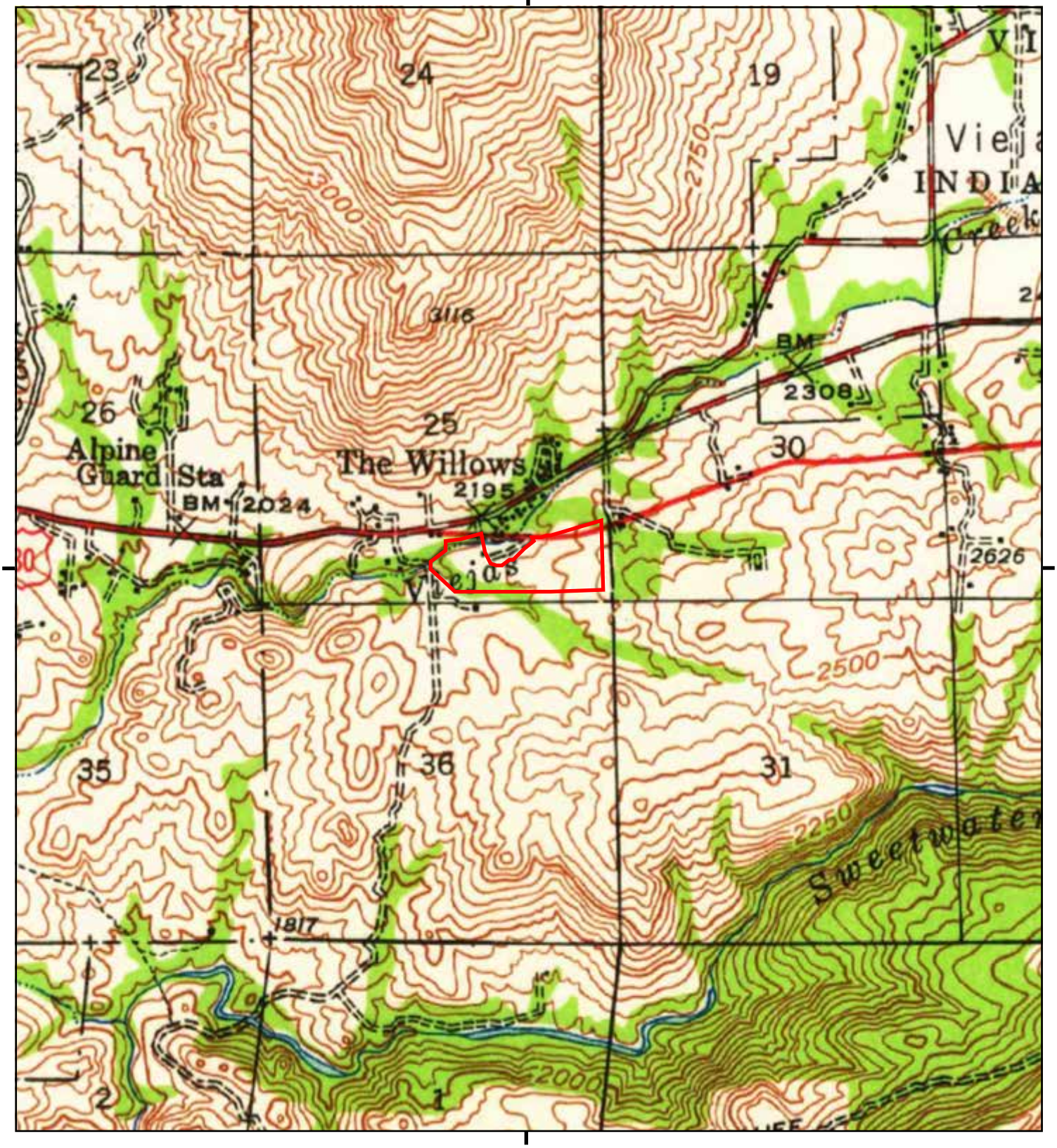
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cuyamaca Peak, 1944, 15-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N



This report includes information from the following map sheet(s).

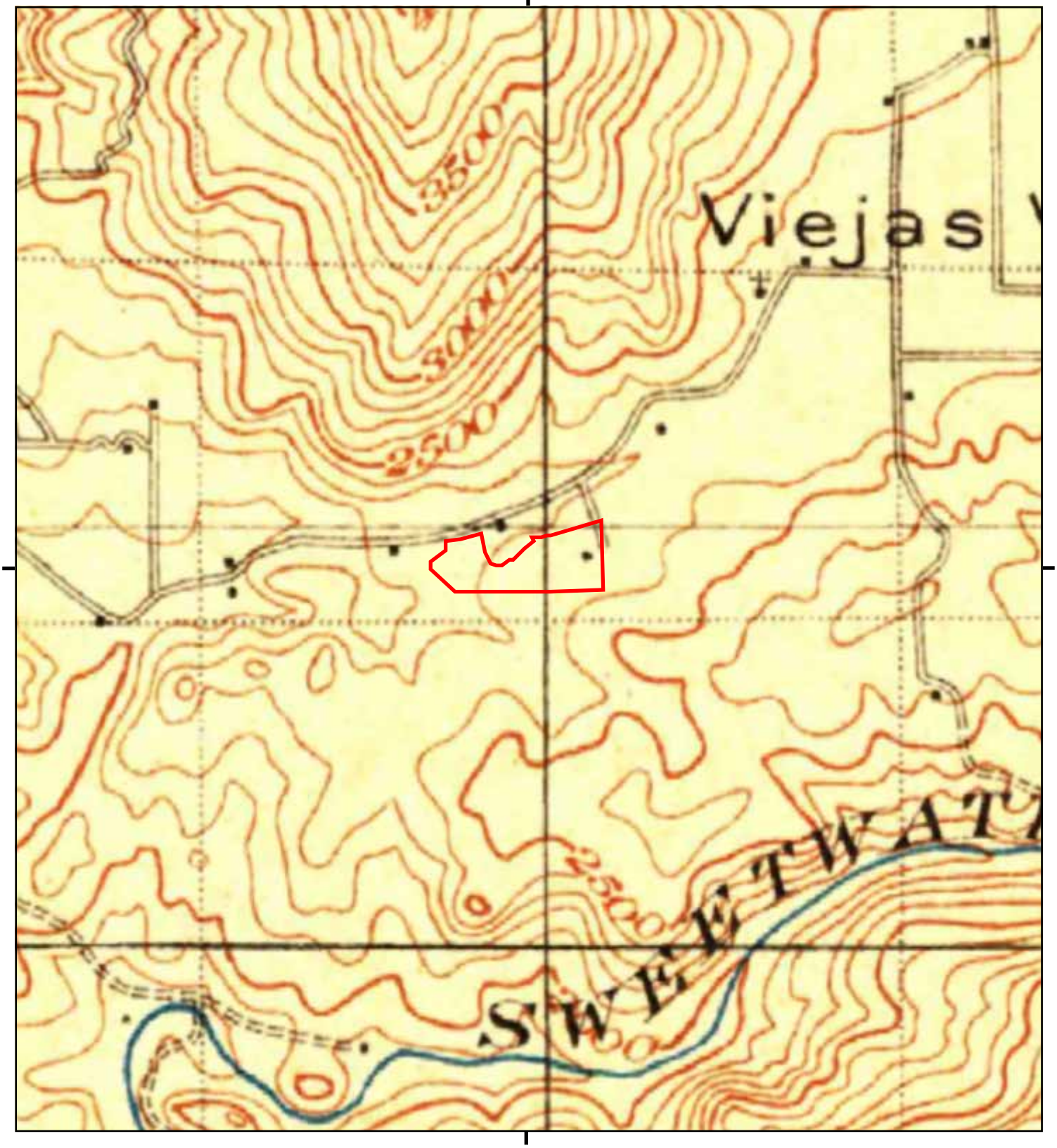
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cuyamaca Peak, 1942, 15-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cuyamaca, 1903, 30-minute

SITE NAME: Ewiiaapaayp Fee-to-Trust
ADDRESS: 4221 Alpine Boulevard
Alpine, CA 91901
CLIENT: Acorn Environmental

N

Appendix D

Certified Sanborn Map Report

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.3
October 30, 2023

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

10/30/23

Site Name:

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901
EDR Inquiry # 7483840.3

Client Name:

Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762
Contact: David Sawyer

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Acorn Environmental 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 # CAC9-40F9-9055

PO # 2307

Project Ewiiaapaayp Fee-to-Trust

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 #: CAC9-40F9-9055

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 E

City Directory

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.5
October 30, 2023

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

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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 business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate 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*
2020	☑	☐	Cole Information
	☑	☐	EDR Digital Archive
2017	☑	☐	Cole Information
2014	☑	☐	Cole Information
2010	☑	☐	Cole Information
2005	☑	☐	Cole Information
2000	☑	☐	Cole Information
1995	☑	☐	Cole Information
1992	☑	☐	Cole Information
1986	☑	☐	Haines Criss-Cross Directory
1982	☑	☐	Haines Criss-Cross Directory
1979	☑	☐	Haines Criss-Cross Directory
1975	☑	☐	Haines Criss-Cross Directory
1971	☑	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

4221 Alpine Boulevard
Alpine, CA 91901

Year	*CD Image*	*Source*
ALPINE BLVD		
2020	pg A1	EDR Digital Archive
2017	pg A2	Cole Information
2014	pg A3	Cole Information
2010	pg A4	Cole Information
2005	pg A8	Cole Information
2000	pg A9	Cole Information
1995	pg A10	Cole Information
1992	pg A11	Cole Information
1986	pg A12	Haines Criss-Cross Directory
1982	pg A13	Haines Criss-Cross Directory
1979	pg A14	Haines Criss-Cross Directory
1979	pg A15	Haines Criss-Cross Directory
1975	pg A16	Haines Criss-Cross Directory
1971	pg A17	Haines Criss-Cross Directory
1971	pg A18	Haines Criss-Cross Directory

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
BELL BLUFF RD			
2020	-	Cole Information	Street not listed in Source
2017	-	Cole Information	Street not listed in Source
2014	-	Cole Information	Street not listed in Source
2010	-	Cole Information	Street not listed in Source
2005	-	Cole Information	Street not listed in Source
2000	-	Cole Information	Street not listed in Source
1995	-	Cole Information	Street not listed in Source
1992	-	Cole Information	Street not listed in Source
1986	-	Haines Criss-Cross Directory	Street not listed in Source
1982	-	Haines Criss-Cross Directory	Street not listed in Source
1979	-	Haines Criss-Cross Directory	Street not listed in Source
1975	-	Haines Criss-Cross Directory	Street not listed in Source
1971	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

ALPINE BLVD 2020

4033	NATHANAEL DAVIES
	TEAGAN DAVIES
4137	DANIEL HARRINGTON
	GLORIA HARRINGTON
	RAVEN & SAGE
4221	DANIEL FISCHER
	MIRJAM BRADY
4417	TIM ENGELSTAD

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2017

4033	DAVIES, NATHANAEL P
4049	BRYANT, KEVIN P
4137	FAZIO, DIANA L
	HARRINGTON, DAN R
	JONES, ANDREW W
	NOLAN, STEVE P
4221	BRADY, MIRJAM
4417	COPE, BENNY
	COPE, MARCIA
	ENGELSTAD, TIM R
4419	KIM, KOE

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2014

4033	DAVIES, NATHANAEL P
4049	OLTRAVER, PATRICK D
4137	HARRINGTON, DAN R
	JONES, ANDREW R
	OCCUPANT UNKNOWN,
4209	OCCUPANT UNKNOWN,
4221	BRADY, MIRJAM
	OCCUPANT UNKNOWN,
	WALKER, DONALD M
4353	OCCUPANT UNKNOWN,
4411	MALONE, MARY
4417	COPE, MARCIA
	ENGELSTAD, TIM S
	OCCUPANT UNKNOWN,
4419	PETERSON, STEVE R

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2010

2038	ALPINE FENCE SUPPLY
	OLYMPIC FENCE
2054	OCCUPANT UNKNOWN,
2101	ALPINE POOL & SPA SUPPLIES
	D JS TIRE SWAP
	JENNIFERS FEED & SUPPLY
	NATURAL INSTINCTS HEALTHY PET
2109	BIKER SHACK
2110	ALPINE EQUIPMENT RENTALS INC
2111	ALPINE JEWELERS
2120	ALPINE SPECIAL TREATMENT CTR
2138	NAUD, PAT A
2139	AL PANCHOS MEXICAN RESTAURANT
2140	PRIMARY RESIDENTIAL MORTGAGE
2142	GLAMOUR GIRLS SALON
	HAIR BY CYNDIE RAE BECCA
2144	ALPINE SUN
2151	ALPINE TOBACCO CO
2156	ALPINE WOMENS CLUB
	GORDON L MIZE INSURANCE
2157	CAMPBELL JEFF
2202	CARLS RENTALS
	ENCHANTED VILLAGE
	OCCUPANT UNKNOWN,
	PENSKE TRUCK RENTAL
2206	G J FLETCHER CONSTRUCTION INC
2210	ALPINE BARBER SHOP
2218	SCAIR
2220	OCCUPANT UNKNOWN,
2223	ALPINE INN
2226	PEDRIN, RUPERT
	SIGNS & SUCH
2232	ALPINE GLASS & SCREEN
	DAN SMITH ALPINE GAS & DIESEL
	DIAZ AUTO DETAILING
2235	ALPINE SHELL
2250	CALIFORNIA BANK & TRUST
2262	ALPINE LIQUOR
	K MC KANY REALTY
	OCCUPANT UNKNOWN,
2271	ALPINE VILLAGE MASSAGE
	AOPS INC
	BACK COUNTRY LAND TRUST
	MILLER FINANCIAL PLANNING
	MYERS MICHELE
	RODNEY GALLOWAY INSURANCE
2331	STEVENSON, DESIREE M
	WIMBERLY, BRYAN
2333	COX, MARTIN W
2335	ALPINE APARTMENTS & MOTEL

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2010 (Cont'd)

2335	MUNOZ, LYDIA
	RICHARDSON, JOSIAH
	SEPIN, JEANIE P
	TAPATIOS
2350	BACKSON, HUH
2351	ALPINE BEER CO
2353	ALPIEN BEAUTY STUDIO
	MELANIE
2357	ARMCHAIR ADVENTURER BOOKSTORE
2400	ABBOTT, JEAN M
	ALPINE MOBILE SALES & SVC
	ANDERSON, SARAH R
	ARNEY, D J
	BALDWIN, MAITLAND H
	BALL, JANET R
	BALLARD, ANN
	BARNETT, MARTIN
	BARRINGTON, ARTHUR L
	BARTELSON, ALBERT H
	BENNETT, ROBERT J
	BERRY, MICHAEL
	BIHUM, MICHAEL A
	BOTT, ARTHUR J
	BOWLEY, GENE B
	CARMAN, BETTY H
	CHANDLER, ROBERT C
	COLLINS, CASSIE
	CONNIES CRITTER CARE
	CONTRERAS, DANIEL E
	CROWDER, TIM A
	CRUZ, KRISTOFFER
	CUFF, GERALD L
	DANCHISE, ESTHER
	DENNY, ROBERT T
	DIVELLO, DOMINICK P
	DROUIN, BRIAN H
	DROZ, IDA L
	DUNN, GLADYS A
	ENGLISH, FOSTER R
	ESCALERA, MARY A
	EVANS, RICHARD L
	FAGEN, LEONCIA
	FARMER, ROBERT A
	FENTON, BOB D
	FERRIS, KAROL R
	FLYNN, NANCY L
	FUSCO, ANTHONY D
	GLASS, JOSEPH B
	GREENE, JUDY S
	GUTMAN, MARIA

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2010 (Cont'd)

2400	HAMILTON, EDDIE J
	HANNAFORD, ANNA K
	HARTLEY, WINNIE J
	HARVEY, JOSEPH L
	HEALY, STEVEN P
	HENNESSEY, PATRICIA
	HENSEL, JOHANNA A
	HESS, JOHN H
	HOLTWICK, NANCY J
	HUBNER, TOM
	ICHELN, JILL D
	JELLINEK, CAROL
	JOHNSON, STEPHANIE
	JOHNSTON, LESTER D
	JUMP, DIXIE M
	KETTERER, TED
	KRUSO, ADRIAN S
	LEE, CAROL E
	LEWELLIN, ROBERT M
	LONG, DONALD R
	LOWELL, DONNA F
	LUTZ, ANNE M
	MABRY, BILL E
	MARTIN, CAROLYN J
	MASSEY, RAYMOND L
	MAXSON, BUZZ
	MELLOR, STANLEY H
	MILLS, BAYDA A
	MITROVICH, HAROLD S
	MOATS, EUGENE
	MORA, SHIRLEY A
	MORK, ALLAN J
	MUNSIE, SHIRLEY M
	NEW VIDEO
	NOBLE, CHRISTINE M
	PALAIS, DELORES C
	PRESTON, JOHN
	PROFETA, JEAN
	RAEL, JUSTIN R
	RAMIREZ, CHARLES M
	REMPP, RICHARD R
	RETTIG, LEE R
	ROGERS, CHLOE P
	ROMERO, DELIA G
	RUNDELL, JANET
	RUST, BARBARA F
	SALYS, MARY E
	SAYRE, ANNA M
	SCHIRMAN, DOLARINE J
	SCULLY, TERRANCE P

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2010 (Cont'd)

2400	SHANE, DONALD C
	SILVER, MARTIN H
	SIMO, ANTONIA R
	SIMPSON, WILLIAM C
	SMART, DAN O
	SNEAD, JAMES D
	STONER, ROBERT V
	THOMPSON, BILLIE K
	TILLANDER, CARL F
	UPCHURCH, DIANE K
	UPRIGHT, MARY N
	USELTON, ANN C
	VOCE, PETER R
	WATSON, REGINALD J
	WILLIAMS, NANCY E
	WILLIAMSBERG ENTERPRISES INC
	WOOD, BETTY M
2403	ALPINE TENDERCARE II LLC
2417	ALPINE AUTO REPAIR
2418	BLACKWELL, LISA
2419	THOMAS, SCOTT M
2420	OCCUPANT UNKNOWN,
2426	OCCUPANT UNKNOWN,
2430	MORSE, WAYNE G
2435	HIPASS SPORTS
	NAPA AUTO PARTS
2436	ELLIS, KEVIN M

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2005

4049 OCCUPANT UNKNOWN,
4137 BUILD IT RIGHT
HARRINGTON, DAN R
REALTY REPAIRS & SERVICE CO
4209 OCCUPANT UNKNOWN,
4221 OCCUPANT UNKNOWN,
4417 ELEGANCE JEWELRY
HOUSTON, DENESE A
OCCUPANT UNKNOWN,
4419 KIM, KOE

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 2000

4353 LORITZ, RICHARD
4417 WASSON, B
4419 OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 1995

4353 LORITZ, RICHARD

Target Street	Cross Street	Source
✓	-	Cole Information

ALPINE BLVD 1992

4137	ROSE, LARRY W
4221	WALKER, DONALD M JR
4353	LORITZ, RICHARD
4417	ENGSTROM, JEFF

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1986

3969	XXXX	00	
4033	XXXX	00	
4049	WILLIAMS R	445-3016	+6
4137	MCGREGOR WM A	445-4278	5
4221	WALKER DONALD M JR	445-8303	1
	WALKER MAXINE	445-8303	
4353	LORITZ RICHARD	445-9159	3
4365	XXXX	00	
4417	FISHER MARTY	445-8761	+6
	THOMPSON KELLEY	445-6254	5
4419	EWING PARKE 3D	445-0910	5
4657	MRVICH MARY F	445-4329	+6
	MRVICH ROBERT	445-4329	+6

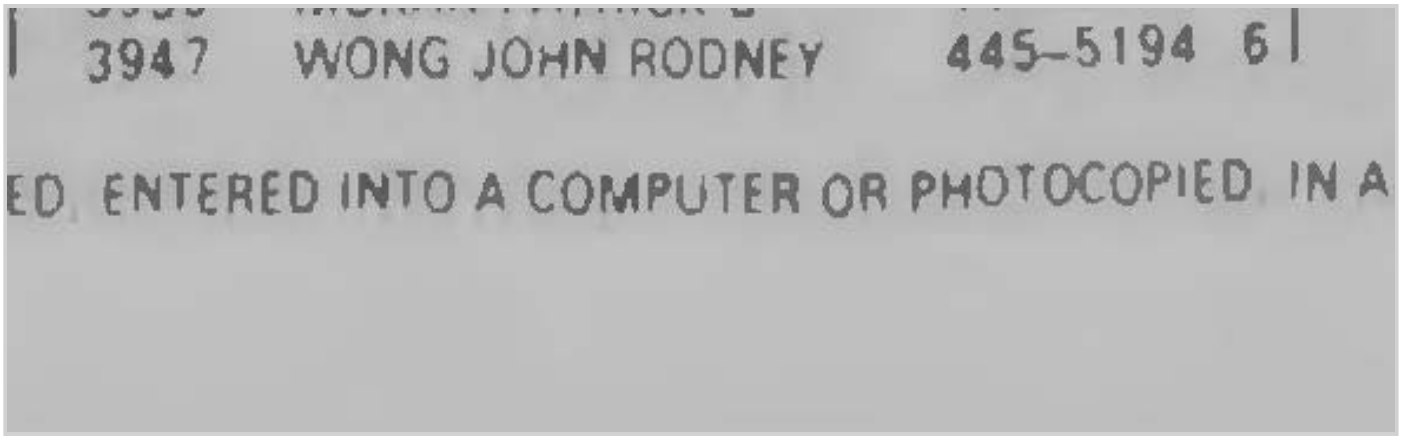
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1982

3969	POSADA RAUL JR	445-5977	0
4033	MENCONI BOB	445-6170	0
4049	XXXX	00	
4137	HIGHTMAN WILLIAM D	445-8538	+2
	WALKER DOUGLAS	445-2545	5
4221	SURBER DOUGLAS	445-5851	+2
	WALKER DONALD JR	445-8303	1
4353	LORTIZ RICHARD	445-9159	+2
4365	XXXX	00	
4417	XXXX	00	
4657	COX A H	445-2579	0

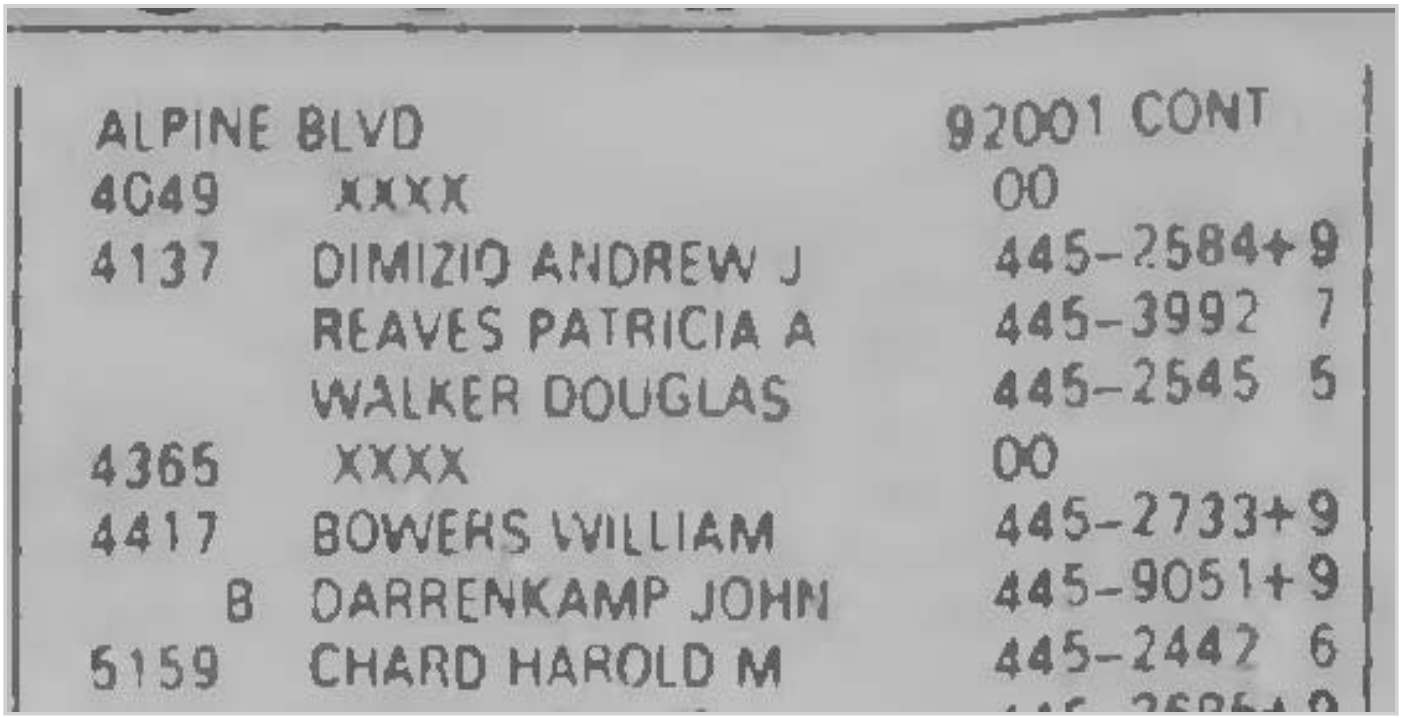
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1979



Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1979



ALPINE BLVD 92001 CONT

4049	XXXX	00
4137	DIMIZIO ANDREW J	445-2584+9
	REAVES PATRICIA A	445-3992 7
	WALKER DOUGLAS	445-2545 5
4365	XXXX	00
4417	BOWERS WILLIAM	445-2733+9
B	DARRENKAMP JOHN	445-9051+9
5159	CHARD HAROLD M	445-2442 6

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1975

```
4049  XXXX                      DO
4137 WALKER DOUGLAS             445-2545+5
NO  #*ALPINE C OF C             445-2722  3
NO  #*ALPINE UN ELEM SCH        445-2625  1
NO  #*ALPINE YOUTH CENTER       445-3777  1
NO  # BATES OONALD J            445-2537+5
NO  #*BUSTERS TOWING SERV       445-3655
NO  #*HINKLE AL LUMBER          445-2657  3
NO  # HUME JOHN C               445-2062+5
NO  #*LOG CABIN CAFE            445-2243  2
NO  #*MCGUFFIE R E              445-2121  1
NO  #*MCGUFFIES ALPINE          445-2121  2
NO  # NEMSHACK TERRY            445-4350+5
NO  # PARKS BETTY H             445-4252+5
     *  75 BUS  286 RES   82 NEW
```

Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1971

3505	APARTMENTS	
	CAMP8ELL HAROLO E	445-2725+1
	CLARK WM A DR	445-3794+1
	FAULKNER ROSE A MRS	445-3319+1
	GINOER J K 8 RMOM	445-2462+1
	LEINHAUPEL FRANK C	445-3643+1
	MALGERI J S	445-3012+1
	SIMMONS L H	445-2649+1
	SPRAGUE LEONARO L	445-5343+1
	THURMAN CLEO	445-4683+1
	WELL8ANO RICHARO J	445-5417+1
	WHITE IRENE L	445-4328+1
	WISEMAN JACK	445-5087+1
NO	#*ALPINE OAKS M8L EST	445-3081+1
NO	#*ALPINE UN ELEM SCH	445-2625+1
NO	#*ALPINE YOUTH CENTER	445-3777+1
NO	#*ALPNE TRLR CMP RNCH	445-3162+1
NO	# ANAGNOS FRANK	445-3097+1
NO	# ANOERSEN CONRAO 8	445-4268+1
NO	# ANOREWS GEO W SR	445-3026+1
NO	# 8ARRETT 8086Y L	445-2429+1
NO	# 8ATES OONALO J	445-2537+1
NO	# 80WER S E	445-3318+1
NO	# 8ROWN CHESTER E	445-2491+1
NO	# 8ROWN SAM	445-3329+1
NO	# 8ROWN WAYNE H	445-2427 0
NO	# COOK O A	445-3125+1
NO	# OAVIOSON JAS J JR	445-4594+1
NO	# OOERR FRANK MRS	445-2428+1
NO	# EARLE ERNA	445-3808+1
NO	# ESPINOZA FRANCES	445-3344 0
NO	#*FLORENCES MKT	445-2436+1
NO	# GASTON GEO F	445-2953+1
NO	# HILL A O	445-3818+1
NO	#*HINKLE AL LM8R SPLY	445-2184+1
NO	# HINKLE JEANETTE C	45-2502+1
NO	#*HOME FORL SAVNGS&LN	445-2629+1
NO	# HOWE RUSSELL R SR	445-3735+1
NO	# HUFFMAN OAN	445-2320+1
NO	# HUFFMAN WANOA	445-2320+1
NO	# JONES W H	445-2250+1
NO	#*KAPSALAS CAFE	445-2414+1
NO	# LAM8ERT CHAS E	445-4040+1
NO	# LEIMGRU8ER WALTER	445-3121+1

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Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

ALPINE BLVD 1971

.ALPINE BLVD 92001 CONT..

NO # LIEBERT ALICE MRS 445-2828+1
NO # MANKER ALFORD 445-2227+1
NO #*MCGUFFIE ALPN SNORS445-2121+1
NO #*MCGUFFIE R E 445-2121+1
NO # MCGUFFIE RALPH E 445-2662+1
NO # MCKEOWN O J 445-3652+1
NO # MOORE HARVEY W 445-3388+1
NO # MOORE LOUISE E 445-3382+1
NO # NOVERO C J 445-3081+1
NO # OCONNOR V J 445-2786+1
NO # ONEILL AUGUSTUS J 445-4509+1
NO # PIETERS I O 445-3127+1
NO # ROGERS GEORGETTE E 445-5064+1
NO # ROGERS JOEY 445-5064+1
NO #*SAUSALITO APPALOOSA445-2427 O
NO # SCHIELKE IRENE L 445-4946+1
NO # SCHUMACHER JOHN F 445-2173+1
NO # SCHWEISS C J 445-2423+1
NO # SEXTON EONA M 445-4419+1
NO # SINGLETON J R 445-2102+1
NO # SMITH ALFREO L 445-4622+1
NO # STEVENS EOW P 445-4814 O
NO # SVENSSON J E 445-3300+1
NO # SWOPE P M 445-5027+1
NO # VANLANOINGHAM L 445-4966+1
NO # VIGNEAULT WILFREO 445-3370+1
NO # WAIBEL ERNEST 445-4481+1
NO # WALLIS CECIL H 445-2459+1
NO # WESTFALL OANL W 445-3352+1
NO # WHEELER PAUL 445-4928+1
NO # WILCOX HATTIE M 445-2122+1
NO # WILSON WM A 445-4300+1

* 35 BUS 168 RES 200 NEW

Appendix F

Site Reconnaissance – Photo Log

Site Photographs – Ewiiaapaayp- Walker/Walker II/Salerno Properties



Central portion of APN 4040902300 looking west towards dwelling unit



Access roadway within AP 4040902300 from Bell Bluff Road.



Bell Bluff Road and Alpine Road looking south



Previously disturbed AP 404802600. Fallow land previously used for agricultural production

	
Mobile dwelling unit on APN 4040901300	Barn structure on APN 4040901300
	
Dwelling unit on APN 4040901300. Currently used as Tribal office space	Above ground propane storage tank on APN 4040901300

	
Stormwater culvert along Star Valley Road in APN 4040900700	Overhead utility lines along Alpine Boulevard in APN 4040900700
	
Public trail system along Viejas Creek within APN 4040802600	Above ground propane storage tank on APN 4040901300

Appendix G

Resume



YEARS OF EXPERIENCE

Over 17 Years

EDUCATION

University of California, Santa Barbara; Bachelor of Arts
Major in Environmental Studies and Geography

KEY QUALIFICATIONS

- Meets the definition of an Environmental Professional per DOI Regulations
- Led the preparation of environmental documents for more than 30 Native American Tribes, various federal, state, and local agencies, and private developers across the United States.

CERTIFICATIONS

- American Institute Certified Planners (AICP)

RYAN SAWYER, AICP

PRINCIPAL | PROJECT DIRECTOR

Ryan Sawyer is a Project Director with 17 years of experience preparing environmental analysis reports in compliance with National Environmental Policy Act (NEPA), ASTM E-1527, and related environmental laws and regulations. Ms. Sawyer specializes in the preparation of environmental studies for Native American tribal governments, and in particular, the preparation of NEPA compliance documents for fee-to-trust economic development projects. Her knowledge of NEPA, BIA NEPA procedures, and the expectations of staff at the BIA Regional Offices has led to a successful fee-to-trust outcome for many of her clients, including but not limited to the Table Mountain Rancheria, Tule River Tribe, Redding Rancheria and others.

RELEVANT PROJECT EXPERIENCE

Ms. Sawyer currently serves as Project Director on various NEPA documents:

- Confidential Fee-to-Trust Development Project EIS and Phase I, WA
- Confidential Fee-to-Trust Tribal Government and Mixed-Use Non-Gaming Project EA, WA
- Confidential Fee-to-Trust Project EA, northern CA
- Table Mountain Rancheria, Various Fee-to-trust Projects and Phase Is, Categorical Exclusions, Fresno County, CA
- Redding Rancheria Fee-to-Trust Project EIS and Phase I, Redding CA
- Spokane Tribe of Indians Fee-Trust Project Categorical Exclusion and Phase I, WA

Prior to the formation of Acorn Environmental, Ms. Sawyer served as the primary author and project manager for more than 100 environmental impact analysis and compliance projects, including, but not limited to, the following:

- Tule River Tribe FTT Project EIS and Phase I, Porterville, CA
- Tule River Tribe FTT Housing Project EA, Tulare County, CA
- Chicken Ranch Rancheria FTT Projects (various), CA
- San Pasqual FTT Projects (various), CA
- Pauma Band 65-acre FTT Project, CA
- Tachi-Yokut Tribe FTT Projects (various), CA
- Chickasaw Nation FTT EA, Carter County, OK
- Chickasaw Nation FTT EA, Marshall County, OK
- Ho-Chunk Beloit FTT EIS, City of Beloit, WI
- Muckleshoot Emerald Downs Fee-to-trust EA, Kings County, WA

acorn environmental

Appendix H

Lien Search/Tax and Building Permits

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.8S
November 3, 2023

EDR Environmental Lien and AUL Search 1980

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search 1980

The EDR Environmental Lien and AUL Search 1980 report provides results from a search of available land title records for environmental cleanup liens and other activity and use limitations (AULs), such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address and/or parcel information to:

- search for parcel number and/or legal description
- search for ownership information filed between 1980 and the most current publicly available date
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.
- search for environmental encumbering instrument(s) filed between 1980 and the most current publicly available date
- provide a copy of any environmental encumbrance(s)
- provide a copy of the current deed when available

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Property Archives, LLC researched and compiled the land title information contained in this EDR Environmental Lien and AUL Search 1980 report on behalf of EDR.



Property Archives

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EDR Environmental Lien and AUL Search 1980

TARGET PROPERTY INFORMATION

ADDRESS

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

PROPERTY DESCRIPTION

Parcel ID: 404-080-26-00

Current Owner: CUYAPAIPE COMMUNITY OF DIEGUENO MISSION INDIANS CUYAPAIPE RE

Legal Description: SEC 25-15-2E SEQ PAR A PER DOC01-359315 IN

Parcel ID: 404-090-07-00

Current Owner: CUYAPAIPE COMMUNITY OF DIEGUENO MISSION INDIANS CUYAPAIPE RE

Legal Description: SEC 25-15-2E SEQ PAR A PER DOC01-359315 IN

Parcel ID: 404-090-13-00

Current Owner: EWIIAAPAAYP BAND OF KUMEYAAY INDIANS CALIFORNIA

Legal Description: SEC 25-15-2E SEQ PAR B OF DOC01-359315 IN

FINDINGS SUMMARY

The following is a summary of information contained in the report. Additional details may be found in the Findings Detail section.

Parcel ID: 404-080-26-00

Environmental Lien: Found ☐ Not Found ■

Other Activity and Use Limitations (AULs): Found ☐ Not Found ■

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
01/08/2001	0010304	Cuyapaipe Com. of Dieg, Mission Indians	D.M. Walker, Jr. & M.I. Walker Revocable Trust
04/06/1983	0109759	D.M. Walker, Jr. & M. I. Walker Rev. Trust	Donald M. Walker, Jr. & Maxine I. Walker

Parcel ID: 404-090-07-00

Environmental Lien: Found ☐ Not Found ■

Other Activity and Use Limitations (AULs): Found ☐ Not Found ■

EDR Environmental Lien and AUL Search 1980

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
01/08/2001	0010304	Cuyapaipe Com. of Dieg, Mission Indians	Pasquale & Marion G. Salerno, Co-Trustees
08/01/1986	0325634	Pasquale & Marion G. Salerno,Co-Trustees	Pasquale Salerno & Marion G. Salerno

Parcel ID: 404-090-13-00

Environmental Lien: Found ☐ Not Found ■

Other Activity and Use Limitations (AULs): Found ☐ Not Found ■

HISTORICAL CHAIN of TITLE FROM 1980			
RECORDED	**INSTRUMENT**	**GRANTEE**	**GRANTOR**
07/05/2023	0174125	Ewiiaapaayp Bank of Kumeyaay Indians	(619) Holdings, LLC
07/05/2023	0174124	(619) Holdings, LLC	Daniel L. Fischer
02/22/2019	065039	Daniel L. Fischer	D.M. & M.I. Walker Revocable Trust
02/22/2019	065037	D.M. & M.I. Walker Revocable Trust	Donald M. Walker, Jr. & Maxine I. Walker
05/17/1979	0204142	Donald M. Walker, Jr. & Maxine I. Walker	William D. Walker & Phyllis C. Walker

RESEARCH SOURCE(S)

The following research sources were reviewed from January 1, 1980, to October 31, 2023. Based on available information evaluated by the title search professional, the jurisdiction does not require a search of judicial records to identify environmental liens.

Source 1: San Diego County Assessor
San Diego County, California

Source 2: San Diego County Clerk-Recorder
San Diego County, California

Source 3: California Department of Toxic Substances Control

FINDINGS DETAIL

Parcel ID: 404-080-26-00

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ■

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ■

EDR Environmental Lien and AUL Search 1980

MISCELLANEOUS DOCUMENTS

Not Applicable

Parcel ID: 404-090-07-00

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ■

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ■

MISCELLANEOUS DOCUMENTS

Not Applicable

Parcel ID: 404-090-13-00

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ■

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AULs: Found ☐ Not Found ■

MISCELLANEOUS DOCUMENTS

Not Applicable

HISTORICAL CHAIN OF TITLE FROM 1980

Parcel ID: 404-080-26-00

DEED TYPE:	Grant Deed
GRANTEE:	Cuyapaipe Community of Diegueno Mission Indians of the Cuyapaipe Reservation of California
GRANTOR:	Donald M. Walker, Jr. & Maxine I. Walker Revocable Intervivos Trust
DATE EXECUTED:	December 28, 2000
DATE RECORDED:	January 8, 2001
INSTRUMENT NO.:	2001-0010304

*See attached exhibit.

DEED TYPE:	Grant Deed

GRANTEE:	Donald M. Walker, Jr. & Maxine I. Walker Revocable Intervivos Trust
GRANTOR:	Donald M. Walker, Jr. & Maxine I. Walker
DATE EXECUTED:	April 6, 1983
DATE RECORDED:	April 6, 1983
INSTRUMENT NO.:	1983-0109759

*No other transfers on subject parcel during period searched, January 1, 1980 through October 31, 2023.

Parcel ID: 404-090-07-00

DEED TYPE:	Grant Deed
GRANTEE:	Cuyapaipe Community of Diegueno Mission Indians of the Cuyapaipe Reservation, A Federally Recognized Indian Tribe
GRANTOR:	Pasquale Salerno & Marion G. Salerno, Co-Trustees
DATE EXECUTED:	June 2, 2000
DATE RECORDED:	June 5, 2000
INSTRUMENT NO.:	2000-0293200

*See attached exhibit.

DEED TYPE:	Grant Deed
GRANTEE:	Pasquale Salerno & Marion G. Salerno, Co-Trustees
GRANTOR:	Pasquale Salerno & Marion G. Salerno
DATE EXECUTED:	August 1, 1986
DATE RECORDED:	August 1, 1986
INSTRUMENT NO.:	1986-0325634

*No other transfers on subject parcel during period searched, January 1, 1980 through October 31, 2023.

Parcel ID: 404-090-13-00

DEED TYPE:	Grant Deed
GRANTEE:	Ewiiaapaayp Band of Kumeyaay Indians, California, A Federally Recognized Indian Tribe
GRANTOR:	(619) Holdings, LLC
DATE EXECUTED:	June 14, 2023
DATE RECORDED:	July 5, 2023
INSTRUMENT NO.:	2023-0174125

*See attached exhibit.

DEED TYPE:	Quit Claim Deed
GRANTEE:	(619) Holdings, LLC
GRANTOR:	Daniel L. Fischer
DATE EXECUTED:	June 12, 2023
DATE RECORDED:	July 5, 2023
INSTRUMENT NO.:	2023-0174124

EDR Environmental Lien and AUL Search 1980

DEED TYPE:	Quit Claim Deed
GRANTEE:	Daniel L. Fischer
GRANTOR:	Donald M. Walker, Jr. & Maxine I. Walker Revocable Intervivos Trust
DATE EXECUTED:	January 23, 2019
DATE RECORDED:	February 22, 2019
INSTRUMENT NO.:	2019-065039

DEED TYPE:	Quit Claim Deed
GRANTEE:	Donald M. Walker, Jr. & Maxine I. Walker Revocable Intervivos Trust
GRANTOR:	Donald M. Walker, Jr. & Maxine I. Walker
DATE EXECUTED:	February 7, 2019
DATE RECORDED:	February 22, 2019
INSTRUMENT NO.:	2019-065037

DEED TYPE:	Grant Deed
GRANTEE:	Donald M. Walker, Jr. & Maxine I. Walker
GRANTOR:	William D. Walker & Phyllis C. Walker
DATE EXECUTED:	May 17, 1979
DATE RECORDED:	May 17, 1979
INSTRUMENT NO.:	1979-0204142

EDR Environmental Lien and AUL Search 1980

CURRENT DEED EXHIBIT

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RECORDING REQUESTED BY
FIRST AMERICAN TITLE
C&I DEPARTMENT

1552

DOC # 2001-0010304

Jan 08, 2001 9:49 AM

OFFICIAL RECORDS
SAN DIEGO COUNTY RECORDER'S OFFICE
GREGORY J. SMITH, COUNTY RECORDER
FEES: 742.00
DC: DC

RECORDING REQUESTED BY AND
WHEN RECORDED MAIL TO:

Ewiiaapaayp Tribal Office
P.O. Box 2250
Alpine, CA 91903
Attn: Jim Penney

MAIL TAX STATEMENTS TO:
SAME AS ABOVE 423450-30
424031-30

2001-0010304

(SPACE ABOVE THIS LINE FOR RECORDER'S USE)

RY HP IT 1099 WF

GRANT DEED

Assessor's Parcel Number: 404-080-24-00

The undersigned Grantor declares that the transfer tax is $715.00 computed on the full value of property conveyed and the Property is located in the County of San Diego, State of California.

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, the undersigned, DONALD M. WALKER, JR. and MAXINE I. WALKER, AS TRUSTEES OF THE DONALD M. WALKER, JR. AND MAXINE I. WALKER REVOCABLE INTERVIVOS TRUST DATED SEPTEMBER 14, 1988 ("Grantor"), hereby grants to the CUYAPAIPE COMMUNITY OF DIEGUENO MISSION INDIANS OF THE CUYAPAIPE RESERVATION, CALIFORNIA, a federally-recognized Indian Tribe ("Grantee"), that certain real property located in the County of San Diego, State of California described in Exhibit A attached hereto and incorporated herein, together with all improvements located thereon ("Property")

subject to:

(1) All tax liens;
(2) All matters of record; and
(3) All matters that may be revealed by a physical inspection.

Dated: 12/28/00

GRANTOR:

DONALD M. WALKER, JR. and MAXINE I. WALKER, AS TRUSTEES OF THE DONALD M. WALKER, JR. AND MAXINE I. WALKER REVOCABLE INTERVIVOS TRUST DATED SEPTEMBER 14, 1988

Donald M Walker Jr
Donald M. Walker, Jr.

Maxine I Walker
Maxine I. Walker

MAIL TAX STATEMENTS AS SET FORTH ABOVE

50127113V1

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State of California)
) ss.
County of SAN DIEGO)

On 12/28/00, before me, Deborah Lee Dixon Notary Public, personally appeared Donald M. WALKER SR., ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that he/~~she/they~~ executed the same in his/~~her/their~~ authorized capacity~~(ies)~~, and that by his/~~her/their~~ signature~~(s)~~ on the instrument, the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal.

Signature Deborah Lee Dixon

(This area for official notarial seal)

DEBORAH LEE DIXON
Commission # 1262771
Notary Public - California
San Diego County
My Comm. Expires May 5, 2004

State of California)
) ss.
County of SAN DIEGO)

On 12/28/00, before me, Deborah Lee Dixon Notary Public, personally appeared RAYMOND I. WALKER, ~~personally known to me~~ (or proved to me on the basis of satisfactory evidence) to be the person~~(s)~~ whose name~~(s)~~ is/~~are~~ subscribed to the within instrument and acknowledged to me that ~~he~~/she/~~they~~ executed the same in ~~his~~/her/~~their~~ authorized capacity~~(ies)~~, and that by ~~his~~/her/~~their~~ signature~~(s)~~ on the instrument, the person~~(s)~~, or the entity upon behalf of which the person~~(s)~~ acted, executed the instrument.

WITNESS my hand and official seal.

Signature Deborah Lee Dixon

(This area for official notarial seal)

DEBORAH LEE DIXON
Commission # 1262771
Notary Public - California
San Diego County
My Comm. Expires May 5, 2004

50127113V1

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COMMITMENT

EXHIBIT A

Property

ORDER NO. 1239450-20

N/A 129147

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN IS SITUATED IN THE STATE OF CALIFORNIA, COUNTY OF SAN DIEGO, AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 15 SOUTH, RANGE 2 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHEAST CORNER OF SAID SECTION 25; THENCE ALONG THE SOUTHERLY LINE OF SAID SECTION 25, SOUTH 88°58'36" WEST, 1538.20 FEET TO THE SOUTHWEST CORNER OF LAND DESCRIBED IN PARCEL 1 IN THE CORRECTED DEED TO DONALD W. WALER, JR. ET UX, IS RECORDED FEBRUARY 14, 1974 AS FILE NO. 74-037235 OF OFFICIAL RECORDS; THENCE CONTINUING ALONG SAID SOUTHERLY LINE SOUTH 88°58'36" WEST, 30.00 FEET TO A POINT HEREIN DESIGNATED AS POINT "Z", THENCE PARALLEL WITH THE EASTERLY LINE OF SAID WALKER'S LAND NORTH 00°1T'37" EAST, 536.00 FEET, MORE OR LESS, TO THE SOUTHEASTERLY LINE OF THAT DECREE OF FINAL DISTRIBUTION UNDER SUPERIOR COURT CASE NO. 61480 RECORDED MARCH 29, 1960 IN FILE NO. 64101 OF OFFICIAL RECORDS; THENCE ALONG THE BOUNDARY OF SAID LAND AS FOLLOWS:

SOUTH 48°29'00" WEST, 98.67 FEET, MORE OR LESS, TO AN ANGLE POINT THEREIN; AND SOUTH 89°22'30" WEST 139.40 FEET; THENCE CONTINUING SOUTH 89°22'30" WEST, 37.67 FEET; THENCE NORTH 22°19'35" WEST 287.15 FEET; THENCE NORTH 08°20'29" WEST, 225.40 FEET TO A POINT ON THE NORTHERLY BOUNDARY OF LAND DESCRIBED IN DEED TO F.B. WALKER, RECORDED JUNE 5, 1903 IN BOOK 323, PAGE 96 OF DEEDS, DISTANT THEREON NORTH 80°30'00" EAST, 206.20 FEET FROM AN ANGLE POINT IN SAID NORTHERLY BOUNDARY AND BEING THE TRUE POINT OF BEGINNING; THENCE RETRACING THE LAST ABOVE DESCRIBED CORNER AS FOLLOWS:

SOUTH 08°20'29" EAST, 225.40 FEET TO AN ANGLE POINT; SOUTH 22°19'35" EAST, 287.15 FEET TO AN ANGLE POINT, NORTH 89°22'30" EAST, 177.07 FEET TO AN ANGLE POINT; NORTH 48°29'00" EAST, 98.67 FEET TO A LINE WHICH BEARS NORTH 00°15'37" EAST FROM POINT "Z", AND SOUTH 00°15'37" WEST, 536.00 FEET MORE OR LESS TO THE SOUTHERLY LINE OF SAID SECTION 25; THENCE ALONG SAID SOUTHERLY LINE SOUTH 88°58'36" WEST TO A POINT DISTANT THEREON NORTH 88°58'36" EAST, 413.79 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 25; THENCE NORTHWESTERLY ALONG A STRAIGHT LINE TO A POINT ON THE WESTERLY LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 25 DISTANT THEREON 411.20 FEET NORTHERLY THEREALONG FROM THE SOUTH QUARTER CORNER OF SAID SECTION 25, BEING ALSO A POINT ON THE WESTERLY LINE OF SAID LAND OF F.B. WALKER HEREINABOVE REFERRED TO; THENCE ALONG THE BOUNDARY OF SAID WALKER'S LAND AS FOLLOWS:

NORTH 01°51'00" WEST (DEED=NORTH) 121.42 FEET TO AN ANGLE POINT THEREIN; NORTH 57°15'00" EAST, 264.00 FEET; NORTH 01°51'00" WEST (DEED=NORTH) 166.32 FEET; NORTH 50°45'00" EAST, 236.28 FEET; NORTH 64°30'00" EAST 132.00 FEET; AND NORTH 80°30'00" EAST,

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FIRST AMERICAN

COMMITMENT

ORDER NO. 1239450-20

N/A 129147

71.25 FEET TO THE SOUTHWESTERLY CORNER OF LAND DESCRIBED IN DEED TO HENRY MARSHALL DOBBS, ET UX, RECORDED FEBRUARY 13, 1945 IN BOOK 1813, PAGE 362 OF OFFICIAL RECORDS; THENCE ALONG THE WESTERLY LINE OF SAID DOBB'S LAND NORTH 09°30'00" WEST, 135.00 FEET, MORE OR LESS, TO THE SOUTHERLY BOUNDARY OF LAND DESCRIBED IN DEED TO THE STATE OF CALIFORNIA RECORDED MAY 11, 1966 AS FILE NO. 78689 OF OFFICIAL RECORDS, BEING A POINT ON THE ARC OF A 3,970.00 FOOT RADIUS CURVE, CONCAVE SOUTHERLY A RADIAL LINE OF SAID CURVE BEARS NORTH 03°34'35' EAST TO SAID POINT; THENCE ALONG SAID SOUTHERLY BOUNDARY AS FOLLOWS:

EASTERLY ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 04°25'25" A DISTANCE OF 306.51 FEET TO THE END OF SAID CURVE; AND LEAVING SAID CURVE SOUTH 75°25'33" EAST TO A LINE WHICH BEARS NORTH 80°30'10" EAST FROM THE TRUE POINT OF BEGINNING; THENCE SOUTH 80°30'10" WEST, 262.08 FEET TO THE TRUE POINT OF BEGINNING.

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1

Recording requested by
NORTH AMERICAN TITLE COMPANY

3299

DOC # 2000-0293200

Jun 05, 2000 12:35 PM

When Recorded Mail to:
Cuyapaipe Community of Diegueno
Mission Indians of the Cuyapaipe
Reservation, a Federally Recognized
Indian Tribe
C/O Pillsbury Madison and Sutro
Attn: Jenna Joyce
11975 El Camino Real Suite 200
San Diego, CA 92130
Title Order # **30-86719-98**
Escrow No: **93038695**

OFFICIAL RECORDS
SAN DIEGO COUNTY RECORDER'S OFFICE
GREGORY J. SMITH, COUNTY RECORDER
FEES: 13.00
DC: DC

TAX: N.D.

2000-0293200

FL
3P
ND
TT

APN 404-090-07-00

Space Above for Recorder's Use Only

GRANT DEED

The undersigned declares that the documentary transfer tax is as set forth on a separate declaration

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, the undersigned,

Pasquale Salerno and Marion G. Salerno Pasquale Salerno and Marion G. Salerno, Co-Trustees UDT dated July 30, 1985

hereby GRANT(S) to

Cuyapaipe Community of Diegueno Mission Indians of the Cuyapaipe Reservation, a Federally Recognized Indian Tribe

That certain real property in the County of San Diego, State of California described in Exhibit "A" attached hereto and incorporated herein, together with all buildings and improvements located thereon ("Property")

As completely described on **Exhibit "A"** attached hereto and incorporated herein

Subject to:
(1) All tax liens;
(2) All matters of record;
and
(3) All matters that may be revealed by a physical inspection

Dated: June 2, 2000

UDT dated July 30, 1985
BY: Pasquale Salerno - TRUSTEE
Pasquale Salerno, Trustee
BY: Marion G Salerno TRUSTEE
Marion G. Salerno, Trustee

MAIL TAX STATEMENTS TO ADDRESS ABOVE

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3300

State of California)
County of San Diego)

On June 2, 2000, before me, the undersigned, a Notary Public in and for said State, personally appeared Pasquale Galeno and Marion G. Galeno personally known to me or proven to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

J.C. DEMAS
COMM. #1234570
NOTARY PUBLIC-CALIFORNIA
SAN DIEGO COUNTY
My Commission Expires
SEPTEMBER 13, 2003

CSC1 CSC1

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EXHIBIT "A"

"LEGAL DESCRIPTION"

ALL THAT PORTION OF THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 15 SOUTH, RANGE 2 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER; THENCE SOUTH 88° 58' 35" WEST ALONG THE SOUTHERLY LINE THEREOF 60.00 FEET MORE OR LESS TO A LINE WHICH IS PARALLEL WITH AND 60.00 FEET WESTERLY OF, MEASURED AT RIGHT ANGLES TO THE EASTERLY LINE OF SAID SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER AND ITS SOUTHERLY PROLONGATION, BEING THE TRUE POINT OF BEGINNING; THENCE CONTINUING SOUTH 88°58'35" WEST ALONG SAID SOUTHERLY LINE 815.00 FEET; THENCE NORTH 1° 29' 32" WEST PARALLEL WITH THE EASTERLY LINE OF SAID SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER 940 FEET, MORE OR LESS, TO THE SOUTHERLY LINE OF LAND DESCRIBED IN DEED TO THE STATE OF CALIFORNIA, RECORDED MAY 11, 1966 AS INSTRUMENT NO. 78689 OF OFFICIAL RECORDS OF COUNTY RECORDER OF SAID SAN DIEGO COUNTY; THENCE EASTERLY ALONG SAID SOUTHERLY LINE TO THE AFORESAID PARALLEL LINE; THENCE SOUTH 1° 29' 32" EAST ALONG SAID PARALLEL LINE TO THE TRUE POINT OF BEGINNING.

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Recording Requested By:
First American Title Company
Homebuilder Services Division

DOC# 2023-0174125

Jul 05, 2023 08:00 AM
OFFICIAL RECORDS
JORDAN Z. MARKS,
SAN DIEGO COUNTY RECORDER
FEES: $911.10 (SB2 Atkins: $0.00)
PCOR: YES
PAGES: 3

RECORDING REQUESTED BY AND

WHEN RECORDED MAIL TO:
AND MAIL TAX STATEMENTS TO:

Ewiiaapaayp Tribal Office
4054 Willows Road
Alpine, CA 91901
Attn: Will Micklin, CEO

6164731

(Space above for Recorder's Use)

GRANT DEED

Assessor's Parcel Number: 404-090-13-00

The Undersigned Grantor Declares: DOCUMENTARY TRANSFER TAX: **$881.10**
CITY TRANSFER TAX: $N/A
SURVEY MONUMENT FEE: $N/A

[**X**] computed on the consideration or full value of property conveyed, OR

[ ] computed on the consideration or full value less value of liens and/or encumbrances remaining at time of sale,

[**X**] unincorporated area; [ ] City of _____, and

FOR VALUABLE CONSIDERATION, receipt of which is hereby acknowledged, the undersigned, (619) HOLDINGS, LLC, a South Dakota limited liability company ("Grantor"), hereby grants to the EWIIAAPAAYP BAND OF KUMEYAAY INDIANS, CALIFORNIA, a federally-recognized Indian Tribe ("Grantee"), that certain real property located at 4221 Alpine Boulevard, in the unincorporated community of Alpine, in the County of San Diego, State of California, described in Exhibit A attached hereto and incorporated herein, together with all buildings and improvements located thereon ("Property").

IN WITNESS WHEREOF, Grantor has caused this Grant Deed to be executed by its duly authorized representative.

Dated: June 14, 2023

GRANTOR:

(619) HOLDINGS, LLC,
a South Dakota limited liability company

By: _____
Daniel Lewis Fischer,
Managing Member

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A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not to the truthfulness, accuracy, or validity of the document.

State of Illinois)
) SS.
County of Will)

On 6/14/23, before me, Sheri S. Zarnick, Notary Public, personally appeared David Lewis Fischer, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Sheri S. Zarnick

Official Seal
Sheri S Zarnick
Notary Public State of Illinois
My Commission Expires 02/07/2024

(This area for official notarial seal)

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EXHIBIT "A"
TO GRANT DEED

PROPERTY DESCRIPTION

Real property in the unincorporated area of the County of San Diego, State of California, described as follows:

PARCEL B AS SHOWN ON CERTIFICATE OF COMPLIANCE AS EVIDENCED BY DOCUMENT RECORDED JUNE 01, 2001, AS INSTRUMENT NO. 2001-0359315 OF OFFICIAL RECORDS, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING A PORTION OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 15 SOUTH, RANGE 2 EAST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF SAN DIEGO, STATE OF CALIFORNIA, ACCORDING TO OFFICIAL PLAT THEREOF, DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHEAST CORNER OF PARCEL 1 AS DESCRIBED IN DEED TO DONALD M. WALKER, JR. AND MAXINE I. WALKER, AS TRUSTEES OF THE DONALD M. WALKER, JR. AND MAXINE I. WALKER REVOCABLE INTERVIVOS TRUST DATED SEPTEMBER 14, 1988, RECORDED MAY 01, 1995 AS FILE NO. 1995-0184105 OF OFFICIAL RECORDS (DEED), ALSO BEING A POINT ON THE SOUTHERLY LINE OF SAID SOUTHEAST QUARTER, SAID POINT BEARS SOUTH 89°14'02 WEST (S88°58'36W PER DEED) 1538.22 FEET FROM THE SOUTHEAST CORNER OF SAID SOUTHEAST QUARTER; THENCE ALONG SAID SOUTHERLY LINE S89°14'02"W (S88°58'36W PER DEED) 819.40 FEET TO THE INTERSECTION WITH A LINE PARALLEL WITH AND 126.00 FEET WESTERLY, MEASURED AT RIGHT ANGLES, OF THE EASTERLY LINE OF LAND DESCRIBED IN DEED TO CUYAPAIPE COMMUNITY OF DIEGUENO MISSION INDIANS OF THE CUYAPAIPE RESERVATION, CALIFORNIA, RECORDED JANUARY 8, 2001 AS DOC. NO. 2001-0010304 OF OFFICIAL RECORDS; THENCE ALONG SAID PARALLEL LINE N00°31'14"E 472.45 FEET TO A LINE HAVING A BEARING OF N89°31'11"E (N89°22'30"E 117.07' PER CUYAPAIPE DEED); THENCE ALONG SAID LINE N89°31'11 "E 52.43 FEET TO AN ANGLE POINT IN SAID CUYAPAIPE LAND; THENCE N48°37'42"E (N48°29'00E PER CUYAPAIPE DEED) 138.62 FEET TO AN ANGLE POINT IN PARCEL 3 AS DESCRIBED IN SAID DEED TO WALKER; THENCE S89°22'24"E 67.08 FEET (S89°33'08E, 66.52' PER DEED); THENCE N50°07'51"E (N49°52'25E PER DEED) 408.71 FEET; THENCE N30°52'52"W 133.11 FEET (N31°08'18W, 135.60' PER DEED) TO A POINT ON THE SOUTHERLY LINE OF LAND DESCRIBED IN DEED TO THE STATE OF CALIFORNIA, RECORDED MAY 11, 1966 AS FILE NO. 78689 OF OFFICIAL RECORDS; THENCE EASTERLY ALONG SAID SOUTHERLY LINE OF LAND DESCRIBED IN DEED TO THE STATE OF CALIFORNIA S88°51'22"E 169.23 FEET TO THE BEGINNING OF 2120.00 FOOT RADIUS CURVE, CONCAVE NORTHERLY; THENCE EASTERLY ALONG SAID CURVE 156.97 FEET THROUGH A CENTRAL ANGLE OF 04°14'32" TO AN INTERSECTION WITH THE WESTERLY LINE OF SAID PARCEL 1; THENCE ALONG SAID WESTERLY LINE S01°14'09"E 928.56 FEET (S01°27'44E, 929.20' PER DEED) TO THE POINT OF BEGINNING.

APN: 404-090-13-00

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.6
October 30, 2023

The EDR Property Tax Map Report

EDR® Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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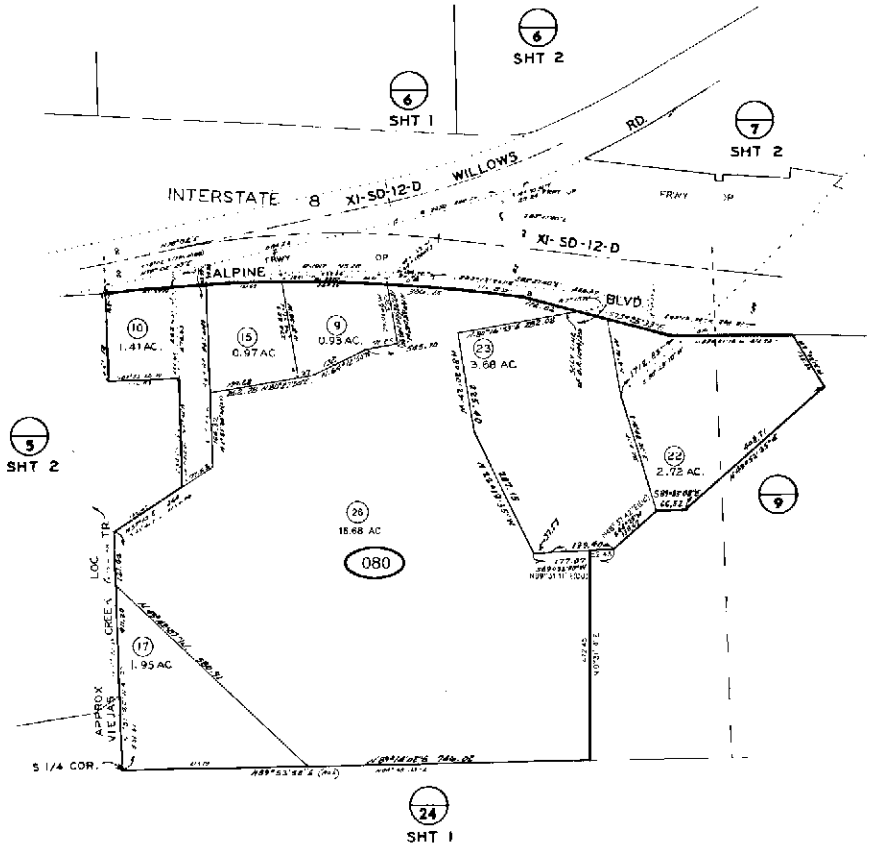
404-08



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CHANGES				
BLK	OLD	NEW	YR	CUT
080	18 & 41&17	080		
	090-8	13	78	4150
	19 & 13	20	78	4451
	19	21	78	4451
	10 & 11 & 14 & 17	10-15 & 3/4 comm. Annex to 10-15	80	1581
	24	26 & 27	09	1347
	25 & 27	30P 080-13	02	1761

404-08

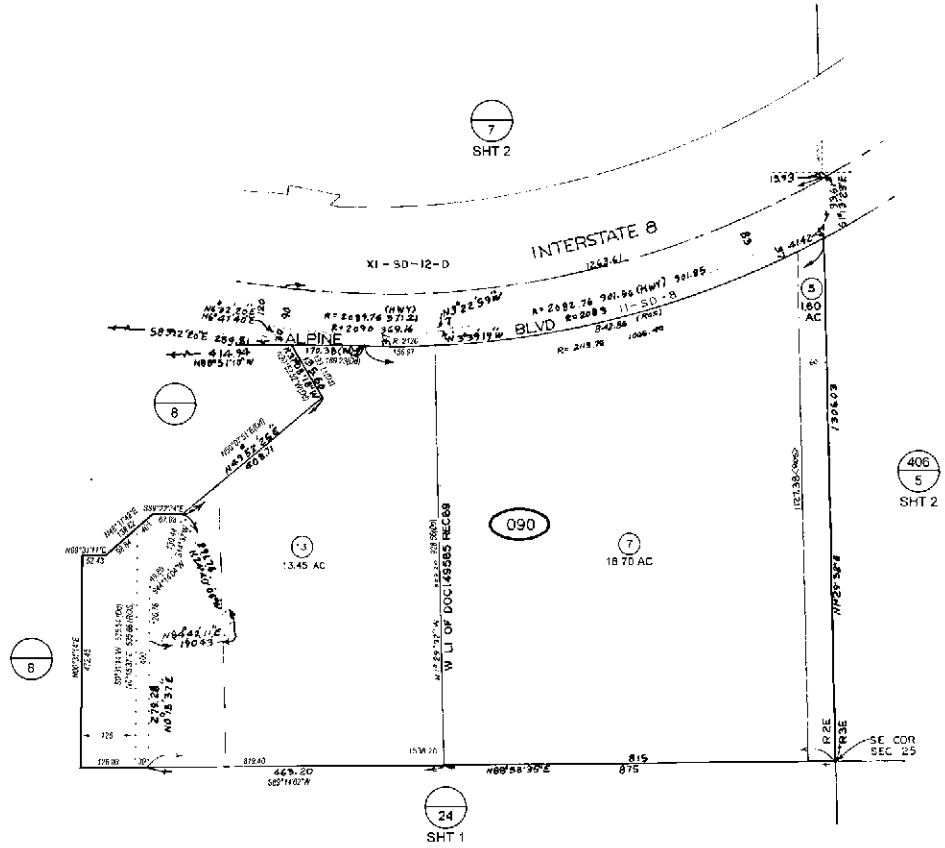
SAN DIEGO COUNTY
ASSESSOR'S MAP
BOOK 404 PAGE 08

THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSES ONLY. NO LIABILITY IS ASSUMED FOR THE ACCURACY OF THE DATA SHOWN. ASSESSOR'S PARCELS MAY NOT COMPLY WITH LOCAL SUBDIVISION OR BUILDING ORDINANCES.

SEC 25 - T15S - R2E - POR SE 1/4
ROS 2327, 2799, 3281, 4088, 9055, 14938, 20713

404-09

1"=200'



02/27/13 DEP

CHANGES

BLK	OLD	NEW	YR	CUT
090	8-101	11-12-10		
	060-18	060-18	79	4159
	11	PORTION 060-18	00	1521
	12 & 280-252421	13	02	1761
	7	SAME & ADJ CH 8	13	5514

404-090

SAN DIEGO COUNTY
ASSESSOR'S MAP
BOOK 404 PAGE 09

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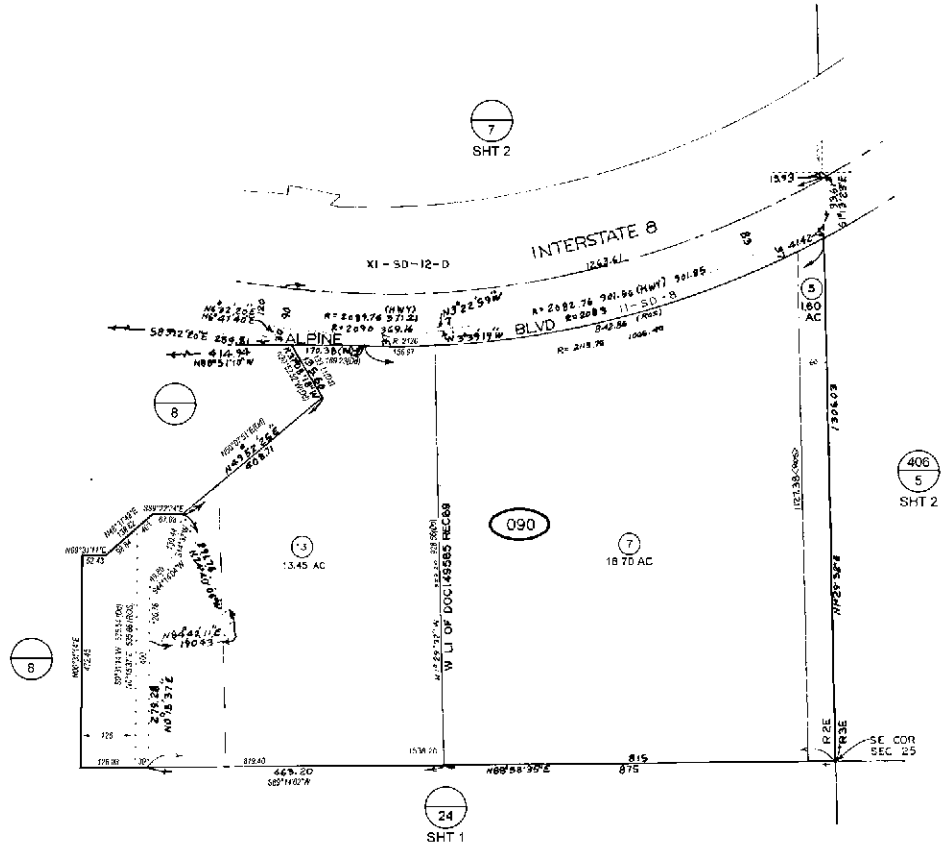
SEC 25 - T15S-R2E - POR SE 1/4
ROS 2799, 12603

404-09

1"=200'



02/27/13 DEP

CHANGES

BLK	OLD	NEW	YR	CUT
090	8-101	11-12-0		
	060-18	060-18 PORTION	79	4159
	11	PORTION	00	1521
	12 & 060-25-0421	13	02	1761
	7	SAME & ADD'L	13	5514

SAN DIEGO COUNTY
ASSESSOR'S MAP
BOOK 404 PAGE 09

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SEC 25 - T15S-R2E - POR SE 1/4
ROS 2799, 12603

Ewiiaapaayp Fee-to-Trust
4221 Alpine Boulevard
Alpine, CA 91901

Inquiry Number: 7483840.7
October 30, 2023

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting 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 (E1527 - 21), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Acorn Environmental on Oct 30, 2023.

TARGET PROPERTY

4221 Alpine Boulevard
Alpine, CA 91901

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

San Diego County

Year	*Source*	*TP*	*Adjoining*
2023	San Diego County, Development Services		
2022	San Diego County, Development Services		X
2021	San Diego County, Development Services		X
2020	San Diego County, Development Services		X
2019	San Diego County, Development Services		
2018	San Diego County, Development Services		
2017	San Diego County, Development Services		
2016	San Diego County, Development Services		X
2015	San Diego County, Development Services		X
2014	San Diego County, Development Services		
2013	San Diego County, Development Services		
2012	San Diego County, Development Services		
2011	San Diego County, Development Services		X
2010	San Diego County, Development Services		X
2009	San Diego County, Development Services		
2008	San Diego County, Development Services		
2007	San Diego County, Development Services		X
2006	San Diego County, Development Services		X
2005	San Diego County, Development Services		
2004	San Diego County, Development Services		
2003	San Diego County, Development Services		X
2002	San Diego County, Development Services	X	
2001	San Diego County, Development Services		
2000	San Diego County, Development Services		
1999	San Diego County, Development Services		
1998	San Diego County, Development Services		X
1997	San Diego County, Development Services		X
1996	San Diego County, Development Services		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1995	San Diego County, Development Services		X
1994	San Diego County, Development Services		
1993	San Diego County, Development Services		X
1992	San Diego County, Development Services		
1991	San Diego County, Development Services		
1990	San Diego County, Development Services		X
1989	San Diego County, Development Services		
1988	San Diego County, Development Services		
1987	San Diego County, Development Services		X
1986	San Diego County, Development Services		
1985	San Diego County, Development Services		
1984	San Diego County, Development Services		
1983	San Diego County, Development Services		
1982	San Diego County, Development Services		
1981	San Diego County, Development Services		
1980	San Diego County, Development Services		
1979	San Diego County, Development Services		
1978	San Diego County, Development Services		
1977	San Diego County, Development Services		
1976	San Diego County, Development Services		
1975	San Diego County, Development Services		
1974	San Diego County, Development Services		
1973	San Diego County, Development Services		
1972	San Diego County, Development Services		
1971	San Diego County, Development Services		

Name: JurisdictionName
Years: Years
Source: Source
Phone: Phone

BUILDING DEPARTMENT RECORDS SEARCHED

Name: San Diego County
Years: 1971-2023
Source: San Diego County, Development Services, ALPINE, CA
Phone: (619) 446-5000

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

4221 Alpine Boulevard
Alpine, CA 91901

4221 ALPINE BLVD

Date:	**8/1/2002**
Permit Type:	**1023**
Description:	**Cross street: VIEJAS CREEK Description of Work: 300 SQ FT POOL FOR EXISTING SFD**
Permit Description:	**PERMIT-POOL/SPA**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2002-1023-20020741
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

ALPINE BLVD

4137 ALPINE BLVD

Date:	**3/23/2022**
Permit Type:	
Description:	**OTC** **CROSS STREET: Bell Bluff Rd Description of Work: HRA (Online Permit) ROOF MOUNT RESIDENTIAL SOLAR PV WITH ADVANCED ENERGY STORAGE SYSTEM FOR EXISTING SFD (No Meter Upgrade). This Permit does not exempt any existing structures from compliance with applicable building code and zoning ordinance requirements. Per Section 4620 (i) of the zoning ordinance, roof mounted photovoltaic systems shall not extend more than 5 ft. above the highest point of the existing roof.**
Permit Description:	**Solar Photovoltaic Roof Mount Residential - Online**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2022-RESALT-003392
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SEMPER SOLARIS

Date:	**4/23/1987**
Permit Type:	
Description:	**CROSS STREET: WILLOWS RD DESCRIPTION OF WORK: WATER HEATER FOR SFD**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS1987-P-87003141
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FOSTER, A & J PLUMBING

ADJOINING PROPERTY FINDINGS

4209 ALPINE BLVD

Date:	**11/8/2022**
Permit Type:	
Description:	**OTC** **CROSS STREET: Bell Bluff Rd Description of Work: HRA (Online Permit) ROOF MOUNT RESIDENTIAL SOLAR PV FOR EXISTING SFD (No Meter Upgrade). This Permit does not exempt any existing structures from compliance with applicable building code and zoning ordinance requirements. PerSection 4620 (i) of the zoning ordinance, roof mounted photovoltaic systems shall not extend more than 5 ft. above the highest point of the existing roof.**
Permit Description:	**Solar Photovoltaic Roof Mount Residential - Online**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2022-RESALT-014539
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SEMPER SOLARIS

Date:	**10/22/2022**
Permit Type:	
Description:	**OTC** **CROSS STREET: 4209 Alpine Blvd Description of Work: HRA (Online Permit) ROOF MOUNT RESIDENTIAL SOLAR PV FOR EXISTING SFD (No Meter Upgrade). This Permit does not exempt any existing structures from compliance with applicable building code and zoning ordinance requirements. PerSection 4620 (i) of the zoning ordinance, roof mounted photovoltaic systems shall not extend more than 5 ft. above the highest point of the existing roof.**
Permit Description:	**Solar Photovoltaic Roof Mount Residential - Online**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2022-RESALT-013752
Status:	Issued
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**2/1/2006**
Permit Type:	**1006**
Description:	**OTC** **Cross street: bell bluff Foundation: SLAB Description of Work: 528 SQ. FT. DETACHED UNFINISHED GARAGE**
Permit Description:	**PERMIT-SFD ACCESSORY BLDG**
Work Class:	New Residential Detached Accessory Structure
Proposed Use:	
Permit Number:	PDS2006-1006-20060053
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**6/15/1998**
Permit Type:	
Description:	**CROSS STREET: WILLOWS DESCRIPTION OF WORK: SFD/AC/**
Permit Description:	
Work Class:	New Primary Residential Structure SFD or MH
Proposed Use:	
Permit Number:	PDS1998-C-98024501
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**3/3/1998**
Permit Type:	
Description:	**CROSS STREET: WILLOWS DESCRIPTION OF WORK: SFD/AC/**
Permit Description:	
Work Class:	New Primary Residential Structure SFD or MH
Proposed Use:	
Permit Number:	PDS1998-A-9800238999
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date: **9/2/1993**
Permit Type:
Description: **CROSS STREET: STAR VALLEY DESCRIPTION OF WORK: 200 AMPS FOR WELL PUMP**

Permit Description:
Work Class: Residential Alteration or Addition
Proposed Use:
Permit Number: PDS1993-E-93006751
Status: Completed
Valuation: $0.00
Contractor Company:
Contractor Name:

4215 ALPINE BLVD

Date:
Permit Type:
Description:

Permit Description:
Work Class:
Proposed Use:
Permit Number:
Status:
Valuation: $0.00
Contractor Company:
Contractor Name:

ADJOINING PROPERTY FINDINGS

4253 ALPINE BLVD

Date:	**9/12/1990**
Permit Type:	
Description:	**CROSS STREET: BELL BLUFF DESCRIPTION OF WORK: SFD/GAR/PORCH/AC**
Permit Description:	
Work Class:	New Primary Residential Structure SFD or MH
Proposed Use:	
Permit Number:	PDS1990-A-9001781999
Status:	PC Expired
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

WILLOWS RD

4127 WILLOWS RD

Date:	**7/24/2015**
Permit Type:	
Description:	**STF** **Cross street: Bobcat Lane Description of Work: Window replacement through sunrise powerlink for existing SFD.**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2015-RESALT-006658
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/12/1997**
Permit Type:	
Description:	**CROSS STREET: HWY 8 WEST WILLOWS DESCRIPTION OF WORK: ADD RECP IN PANTRY**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS1997-E-97005501
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

Date:	**4/26/1995**
Permit Type:	
Description:	**CROSS STREET: HWY 8 DESCRIPTION OF WORK: 100 AMP SERVICES FOR 2 SEP SFDS GRANDFATHERED IN AND 4223**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS1995-E-95000411
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4160 WILLOWS RD

Date:	**5/27/2021**
Permit Type:	
Description:	**STF** **CROSS STREET: Hillcrest Drive Description of Work: Existing Residential Main Electrical Service Upgrade - 200A - (Online Permit) *The scope of work is limited to upgrade of the existing main service panel. No new sub-panels or relocation permitted.**
Permit Description:	**(Online) Electrical - Existing Main Svc Upgrade (Max 400A)**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2021-RESALT-006174
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ZOLEZZI DEVELOPMENT INC

Date:	**6/23/2011**
Permit Type:	
Description:	**piles of garbage everywhere attracting rats**
Permit Description:	
Work Class:	General Enforcement
Proposed Use:	
Permit Number:	PDS2011-RFS-11-0069651
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

Date:	**8/27/2007**
Permit Type:	
Description:	**MORE THAN ONE (MAYBE 3) MOTORHOMES OCCUPIED W/EXTENSION CORDS RUNNING INTO THEM AND USING PROTA-POTTIES**
Permit Description:	
Work Class:	General Enforcement
Proposed Use:	
Permit Number:	PDS2007-RFS-07-0033086
Status:	Closed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4165 WILLOWS RD

Date:	**2/5/2010**
Permit Type:	**1007**
Description:	**OTC** **Cross street: I 8 off ramp Description of Work: RESIDENTIAL TO REWIRE 100AMP...1JLE**
Permit Description:	**PERMIT-ELECTRICAL**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2010-1007-20100103
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4211 WILLOWS RD

Date:	**7/24/2015**
Permit Type:	
Description:	**STF** **Cross street: Bobcat Lane Description of Work: siding repair for sunrise powerlink program for existing sfd.**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2015-RESALT-006662
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4223 WILLOWS RD

Date:	**1/7/2003**
Permit Type:	**1007**
Description:	**Cross street: I 8 off ramp Activity Code: 42e101 Description of Work: emergency repair of elec riser**
Permit Description:	**PERMIT-ELECTRICAL**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2003-1007-20030010
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

ADJOINING PROPERTY FINDINGS

4231 WILLOWS RD

Date:	**12/16/1997**
Permit Type:	
Description:	**CROSS STREET: DESCRIPTION OF WORK: RELOCATE ELECTRICAL PANEL FOR 100 AMP SFD 10/22/01 - RENEWED AT 25% FEES UNTIL 10/22/02....PLH**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS1997-E-97008641
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	

4325 WILLOWS RD

Date:	**6/29/2020**
Permit Type:	
Description:	**STF** **CROSS STREET: Alpine Blvd Description of Work: HRA (Online Permit) ELECTRIC HEAT PUMP AND/OR AIR CONDITIONER REPLACEMENT, NO MODIFICATIONS OR ALTERATIONS TO EXISTING SYSTEM**
Permit Description:	**(Online) Mechanical - HRA Electric Heat Pump/AC R&R**
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2020-RESALT-005643
Status:	Issued Expired
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SEMPER SOLARIS CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date:	**10/22/2016**
Permit Type:	
Description:	**OTC** **CROSS STREET: BOBCAT LN Description of Work: HRA (Online Permit) ROOF MOUNT RESIDENTIAL SOLAR PV FOR EXISTING SFD (No Meter Upgrade). PerSection 4620 (i) of the zoning ordinance, roof mounted photovoltaic systems shall not extend more than 5 ft. above the highest point of the existing roof.**
Permit Description:	
Work Class:	Residential Alteration or Addition
Proposed Use:	
Permit Number:	PDS2016-RESALT-010719
Status:	Completed
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SEMPER SOLARIS CONSTRUCTION INC

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use (s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

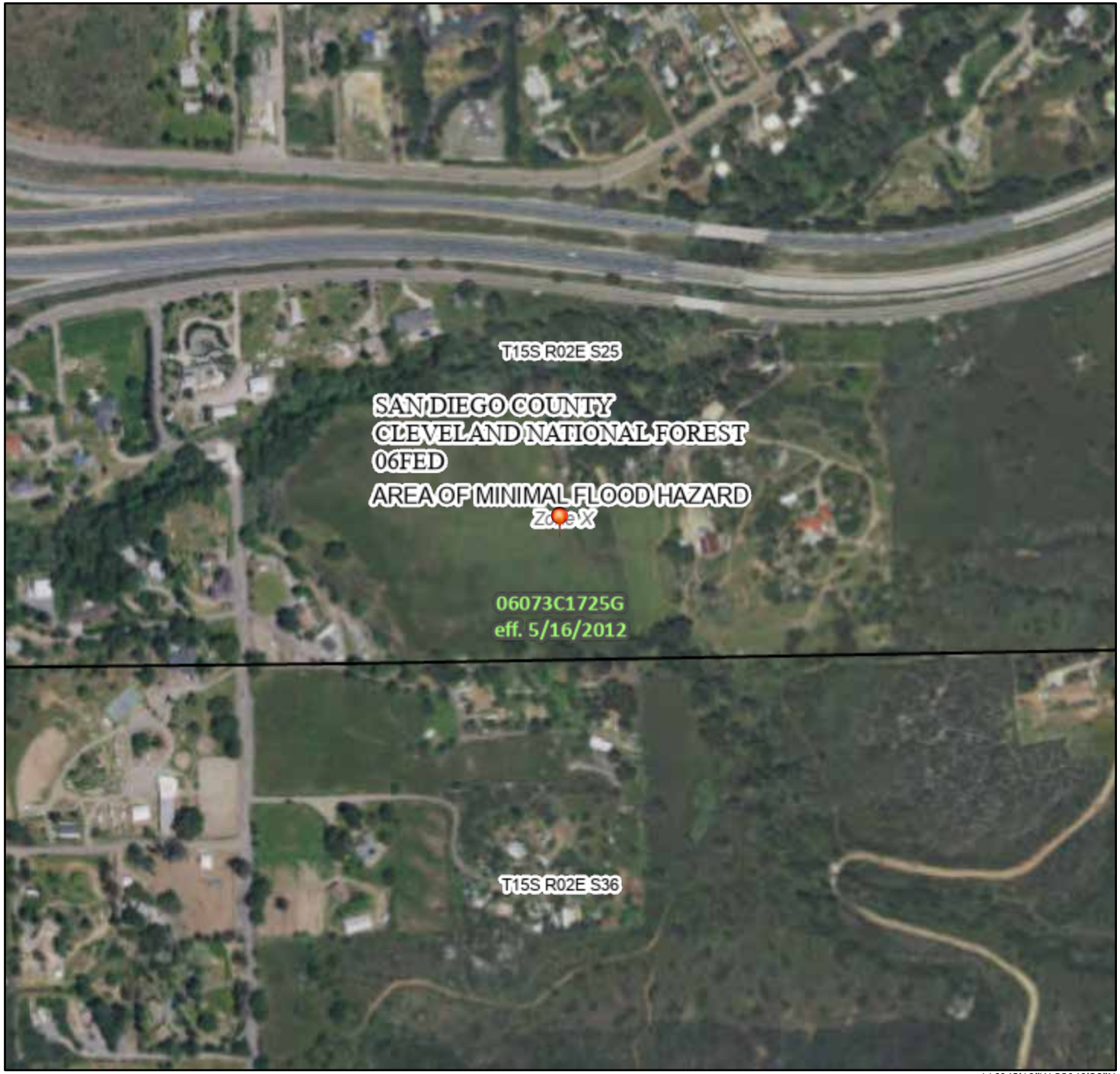
Appendix I

FEMA FIRM

National Flood Hazard Layer FIRMette

FEMA

116°43'48"W 32°50'8"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

116°43'10"W 32°49'38"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/10/2023 at 1:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Appendix J

Questionnaire/County CUPA Response

acorn environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762
916-235-8224 | www.acorn-env.com

HAZARDOUS SUBSTANCES QUESTIONNAIRE

FOR AN ENVIRONMENTAL SITE ASSESSMENT

This questionnaire is provided as part of a customary practice for conducting an Environmental Site Assessment (ESA) on a specific parcel of real estate, and response to this questionnaire is voluntary. The objective of this questionnaire, pursuant to ASTM Standard E 1527-21, is to obtain information regarding the presence or likely presence of any hazards, hazardous substances, or petroleum products on the Subject Property that may present a material risk of harm to public health or to the environment. Information provided by this questionnaire will be used to identify any recognized environmental conditions existing on the Subject Property, and to determine if additional site investigation is necessary. Please respond to the best of your ability. Please describe reasons for any affirmative answers in the spaces provided or on the back of this paper.

Subject Property Address & Assessor Parcel Number:
Walker, Walker II, and Salerno Properties: San Diego County APNS 4040802600, 4040901300, and 4040900700

Your Name and Title:	
Company/Organization	Ewiiaapaayp Band of Kumeyaay Indians
Mailing Address:	4054 Willows Rd, Alpine, CA 91901
Phone:	(619) 368-4382
Relationship to Property: (Landowner, Lessee, Occupant, Facility Manager, custodial, etc.)	Landowner

1) Are you aware of any environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state or local law? If yes, please provide documentation.

   No.

2) Are you aware of any activity and land use limitations (AULs), such as engineering controls, land use restrictions, institutional controls that are in place on the Subject Property and/or have been filed or recorded under federal, tribal, state or local law? If yes, please provide documentation.

The Ewiiaapaayp Band of Kumeyaay Indians (EBKI) pursuant to a U.S. Fish & Wildlife Service Biological Opinion (see Attachment 1) entered into a Memorandum of Agreement (MOA) (see Attachment 2 and 3) that requires setbacks from the creek bed along the Walker I parcel north and northwest boundary in order to mitigate any impacts to potential Arroyo Toad habitat.

3) As the owner/user of the ESA, do you have any specialized knowledge or experience related to the Subject 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?

   The Walker II parcel was used as a personal residence, and the Walker II and Salerno parcels are greenfields with no active use; therefore, no specialized knowledge or experience is applicable to these parcels.

4) Does/Did the purchase price paid for the Subject Property reasonably reflect the fair market value of the property? 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 Subject Property?

   The current value of the parcels exceed the purchase price. The parcel values increase with area parcel values due to no impairments to parcel values.

5) Are you aware of commonly known or reasonably ascertainable information about the Subject Property that would help us identify conditions indicative of releases or threatened releases?

   a. Do you know of the past uses of the Subject Property?

      Yes. See answer #3 above.

   b. Do you know of specific chemicals that are present or once were present at the Subject Property?

      No.

   c. Do you know of spills or other chemical releases that have taken place at the Subject Property?

      No.

   d. Do you know of any environmental cleanups that have taken place at the Subject Property?

No.

6) As the owner/user of this Phase I ESA, based on your knowledge and experience related to the Subject Property are there any obvious indicators that point to the presence or likely presence of contamination at the property?

   No.

7) Please provide names and phone numbers of key individuals with knowledge of historical and/or current site use

   Will Micklin, (619) 368-4382, ceo@ebki-nsn.gov

8) Please provide the following information, if available:

   a. Copies of any environmental site assessment or compliance audit reports

      Provided.

   b. Copies of environmental permits, such as NPDES, solid or hazardous waste disposal permits

      N/A

   c. Locations of septic systems or water wells.

      Please see Attachments 1 and 2.

   d. Registrations for underground or above ground storage tanks

      None.

   e. Registrations for underground injection systems

      None.

   f. Material safety data sheets for materials used/stored on site

      None.

g. Community right-to-know plan or Safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans

N/A

h. Reports regarding hydrogeologic conditions on the property or surrounding area

Provided.

i. Notices of other correspondence from any government agency relating to past or current violations of environmental laws with respect to the property or relating to environmental liens or AULs encumbering the property

None.

j. Copies of geotechnical studies or risk assessments

Provided.

I, the undersigned respondent, state that to the best of my knowledge, the preceding answers, statements, and facts are true and correct, and that no material facts have been suppressed or misstated.

Your Signature_____ Date: 10/31/2023

Please mail, fax, or email the finished questionnaire to:

Acorn Environmental
Postal Address: 5170 Golden Foothills Parkway, El Dorado Hills, CA 95762
Email Address: dsawyer@acorn-envs.com

If you have any questions, please call Dave Sawyer at (805) 220-8763.

County of San Diego

DEPARTMENT OF ENVIRONMENTAL HEALTH AND QUALITY
HAZARDOUS MATERIALS DIVISION
P.O. BOX 129261 SAN DIEGO, CA 92112-9261
PHONE: (858) 505-6880 | www.sdcdehq.org

PUBLIC RECORDS REQUEST FOR THE HAZARDOUS MATERIALS DIVSION

Requestor Name: David Sawyer **Date:** 10-27-23

Telephone: ( ) 805-220-8763 **Fax:** ( )

Company/Organization Name: Acorn Environmental

Mailing Address: 5170 Golden Foothills Parkway, El Dorado Hills, CA 95762

Email Address: dsawyer@acorn-env.com

A separate form must be completed for each address or parcel number. Email your completed form to PublicRecords.DEH@sdcounty.ca.gov.

_____ OR 404-090-13-00, 404-080-26-00, 404-090-07-00
Exact Address (Street, City and Zip Code) Assessor Parcel Number

Records requested from: 10-27-23 to 10-27-23 ☒ All Records
Date Date

Please indicate the purpose of your search by checking all that apply:

☒ Hazardous Materials (HMD) Permits ☒ Underground Storage Tank (UST) Files
☐ Other (explain below):

Hazardous Materials involvement per due dilligence Phase I ESA

Please be advised that records are returned electronically via email unless otherwise requested by checking the box. Photocopy and/or scanned file fees may apply. ☐ Photocopies requested

OFFICE USE ONLY BELOW THIS LINE

A search for records requested above has been conducted by DEHQ and the following apply:

☐ HMD files for the permit number(s) listed below are available.

_____ # _____ # _____ # _____ # _____

☐ UST files for the permit number(s) listed below are available.

_____ # _____ # _____ # _____ # _____

☐ Other files for the permit number(s) listed below are available.

_____ # _____ # _____ # _____ # _____

☑ No records were found for the address/APN requested.

Files copied/scanned for: _____ of _____ Date: _____

# of pages copied/scanned:_____ Cost $_____ ☐ email ☐ mail ☐ pickup Date Completed: _____

Atish Khalili
Signature of DEHQ Representative

10-27-23 - PROCESSED 10/30/23
Date

Appendix K

AES Phase I ESA – Walker II Property



PHASE I
ENVIRONMENTAL SITE ASSESSMENT

EWIIAAPAAYP BAND OF KUMEYAAY INDIANS
WALKER II PARCEL

MAY 2018

PREPARED FOR:

Ewiiaapaayp Band of Kumeyaay Indians
4058 Willows
P.O. Box 2250
Alpine, CA 91901-1668

PREPARED BY:

Analytical Environmental Services
1801 7th Street, Suite 100
Sacramento, CA 95811
www.analyticalcorp.com
(916) 447-3479

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

EWIIAAPAAYP BAND OF KUMEYAAY INDIANS
WALKER II PARCEL

MAY 2018

PREPARED FOR:

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WALKER II PARCEL
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SECTION 1.0
INTRODUCTION

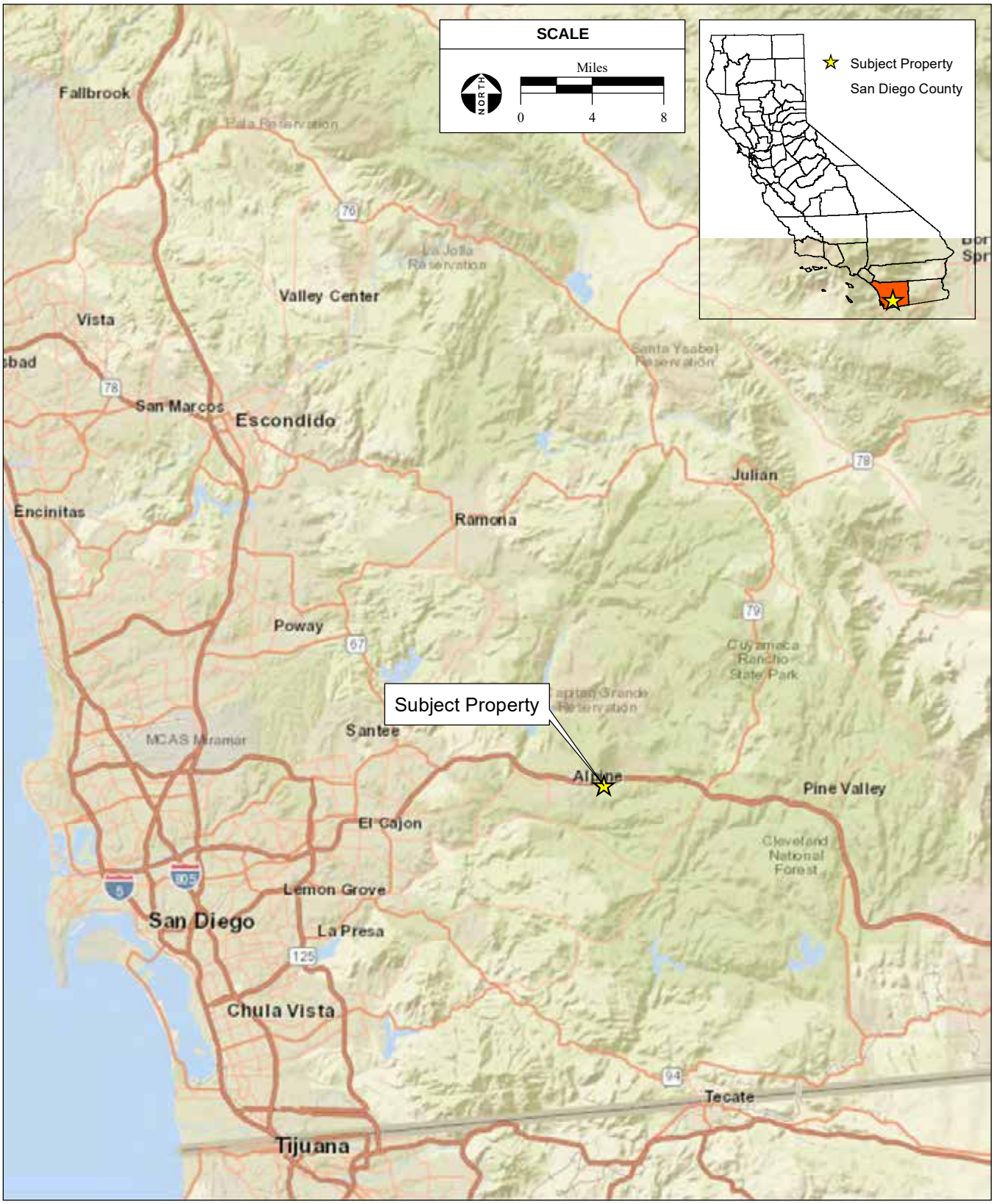
1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and the American Society for Testing and Materials (ASTM) Standard Practice E1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Phase I ESA encompasses the 13.45-acre property at 4221 Alpine Boulevard, identified by San Diego County Assessor's Parcel Number (APN) 404-090-13-00, located in unincorporated San Diego County, California (**Figure 1**). As such, the use of the term "Subject Property" refers to the entire 13.45-acre parcel, unless otherwise stated. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) that may affect future uses and/or the acceptance of the Subject Property into federal trust.

This Phase I ESA covers the Subject Property and surrounding known sources of contamination, up to 1.0 mile from the Subject Property. A site reconnaissance inspection of the Subject Property and adjacent properties was performed and relevant database listings of hazardous materials sites, waste generators, and underground storage tanks (USTs) were reviewed. Additionally, historical topographic maps and aerial photographs of the Subject Property were reviewed.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with relevant laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term Historical Recognized Environmental Conditions (HREC) refers to environmental conditions associated with the Subject Property, including a past release of any hazardous substance or petroleum product that have since been remediated, which in the past would have been considered a REC. This Phase I ESA additionally includes the analysis of the presence of Controlled Recognized Environmental Conditions (CREC), for hazardous substance releases that have been partially addressed through remediation, but where some contamination remains in place under certain risk-based restrictions or conditions. HRECs and CRECs are included in this Phase I ESA (ASTM, 2013).



SOURCE: ESRI, 2018; AES, 4/23/2018

Ewiiaapaayp Walker II Phase I ESA / 208520 ■

Figure 1
Regional Location

1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment to ASTM Standard Practice E1527-13 will reduce, but not eliminate uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historical and current information on the Subject Property within the time available, the possibility of undiscovered contamination remains. This report is a best-effort collection and interpretation of available information consistent with industry standards for the completion of Phase I ESAs.

This Phase I ESA is based on a site reconnaissance of the Subject Property, a visual reconnaissance of adjacent properties, searches of government hazardous materials databases, and interviews with individuals familiar with current and historical uses of the Subject Property. The site reconnaissance was non-substantively limited by physical constraints, including small areas of dense vegetation scattered throughout the Subject Property. Physical testing of soil or groundwater is not within the scope of this assessment. Testing for asbestos containing building materials (ACM) and lead-based paint surveys are also not included in this assessment. Information was obtained for this Phase I ESA to comply with current ASTM guidelines.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this Phase I ESA. The following sub-sections describe the methods used and the data sources consulted to accomplish each task.

1.4.1 Historical Review

Previous land uses and history of the Subject Property were researched in an effort to identify RECs, HRECs, and CRECs at or near the Subject Property. Historical aerial photographs (**Appendix A**) and topographic maps (**Appendix B**) from different decades were examined for the presence of aboveground storage tanks (ASTs), industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage within the study area. Sanborn Fire Insurance Maps document historical property use through abbreviations and map symbols that identify commercial, residential, industrial, residential, and other land uses. However, the Subject Property is unmapped in the Sanborn Library; thus, no records were available for review (**Appendix C**). The City Database Directory was consulted in an attempt to ascertain previous land uses of the Subject Property (**Appendix D**).

1.4.2 Database Searches

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available information from federal, state, and local agency lists consists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites that manufacture, generate, use, store, and/or dispose

of hazardous materials or hazardous wastes; (d) sites that have USTs and/or ASTs; and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions on the Subject Property. A full listing of sites within the vicinity of the Subject Property is provided in **Appendix E**.

1.4.3 Site Reconnaissance

Aileen Mahoney of Analytical Environmental Services (AES) conducted a reconnaissance inspection of the Subject Property and adjacent properties on April 9, 2018. The purpose of the site reconnaissance was to examine the property for obvious physical indications of improper hazardous substance or petrochemical disposal, such as stained soil or asphalt, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement. Furthermore, adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if current land uses would affect the planned uses of Subject Property.

Site reconnaissance was conducted on foot in a counterclockwise loop starting from the center of the eastern boundary of the Subject Property, and included transects throughout the center of the Subject Property.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard E1527-13 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in the Phase I ESA. A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties.

Due to the location of the Subject Property, Sanborn Fire Insurance Maps were not available for the Subject Property. However, aerial photographs and historic topographic maps were available for review of previous uses of the Subject Property. Thus, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA.

1.6 CREDENTIALS

Aileen Mahoney prepared this report under the professional supervision of David Zweig, P.E., who qualifies as an Environmental Professional as defined in the ASTM Standard E1527-13 (40 Code of Federal Regulations [CFR] §312.10[b]). Resumes for Aileen Mahoney and David Zweig are included in **Appendix H**.

SECTION 2.0
SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located in unincorporated San Diego County, California, at 4221 Alpine Boulevard (**Figures 2** and **3**). The Subject Property encompasses one parcel (APN 404-090-13-00) totaling 13.45 acres.

2.2 SITE AND VICINITY CHARACTERISTICS

The Subject Property is made up of 13.45 acres consisting of a central residence, barn, and mobile home. Two storage sheds are located west of the barn and east of the main residence, respectively. The Subject Property generally slopes from the center of the site to the north, south, and west. The Subject Property ranges in elevation from approximately 1,990 feet above sea level (asl) to approximately 2,250 feet asl. The Subject Property is not within the service boundary for municipal water or wastewater services (Micklin, 2018).

Regional access is provided by Interstate 8 (I-8), which runs in an east-west direction north of the Subject Property. Local access to the Subject Property is provided by Alpine Boulevard, a two-lane road that runs along the northern boundary of the property, and Bell Bluff Road, a one-lane road that runs along the northwestern boundary of the property. A one-lane paved driveway provides access to the main residence within the Subject Property. There is one previously paved abandoned road that is located parallel to the northern boundary of the site, and several unpaved roads located throughout the Subject Property as seen on **Figure 3**.

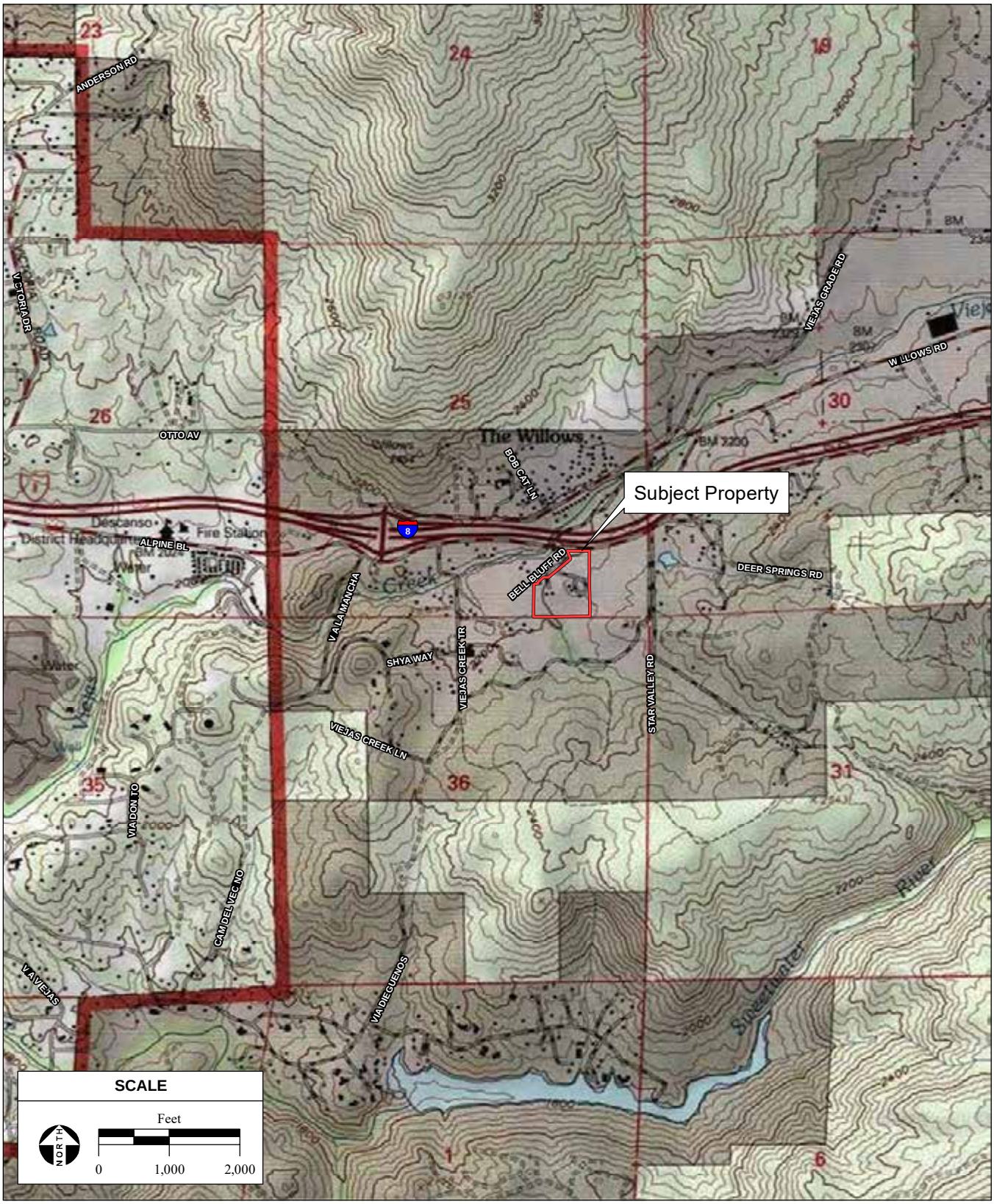
2.3 LOCAL ENVIRONMENTAL RECORDS SOURCES

2.3.1 Local Environmental Agency

The Environmental Database Research, Inc. (EDR) report (**Appendix E**), the California Department of Toxic Substances Control (DTSC) EnviroStor website, the California State Water Resource Control Board (SWRCB) GeoTracker website, and the United States Environmental Protection Agency (EPA) Facility Registry Service and Envirofacts website provided search and documentation of the available local hazardous materials data.

2.3.2 Department of Planning and Zoning

Zoning designations on the Subject Property were reviewed through information provided by San Diego County. The Subject Property is zoned as limited agriculture. The land use designation of the Subject Property is Village Residential 2 (San Diego County, 2018).



SOURCE: "Viejas Mountain, CA" USGS 7.5 Minute Topographic Quadrangle,
T15S, R2E, Section 25, San Bernardino Baseline & Meridian;
ESRI 2018; AES, 4/23/2018

Figure 2
Site and Vicinity



SOURCE: DigitalGlobe aerial photograph, 11/8/2016; AES, 5/9/2018

Figure 3
Aerial Photograph

2.3.3 Electrical Utility Company

Sempra San Diego Gas and Electric (SDG&E) provides electrical service within the vicinity of the Subject Property (Sempra, 2018).

2.4 HYDROLOGY

Drainage within the Subject Property follows the topography of the site, which is variable throughout the site. Surface water drainage within the Subject Property occurs primarily along unpaved roads and from the center of the site to the north, south, and west. The highest point on the site is located adjacent to the eastern side of the main residence. No vegetated drainage channels are present on the Subject Property.

2.5 GEOLOGY AND SOILS

The rock stratigraphic unit of the Subject Property is of the Mesozoic era, Cretaceous system, and Cretaceous granitic rock series (**Appendix E**). The dominant soils on the Subject Property are Fallbrook sandy loam, Greenfield sandy loam, and Visalia sandy loam. These soils are well drained with moderate infiltration rates (**Appendix E**). The Subject Property is located within 30 miles of strike-slip faults to the east and west of the Subject Property (USGS, 2018).

2.6 CURRENT USES OF THE SUBJECT PROPERTY

A site reconnaissance of the Subject Property was performed on April 9, 2018, by Aileen Mahoney of AES. The Subject Property is currently developed with a main residence, barn, and mobile home. Two storage sheds are located west of the barn and east of the main residence, respectively. The main residence was constructed in 1982 (Micklin, 2018). Site photos showing the conditions of the Subject Property are shown in **Figures 4** and **5** in **Section 3.0**. The Subject Property contains on-site water and wastewater systems, one paved roadway leading to the main residence, and one unused previously paved roadway parallel to the northern boundary of the site. The remainder of the roadways within the Subject Property are unpaved.

2.7 HISTORIC USES OF THE SUBJECT PROPERTY

2.7.1 Aerial Photographs

Available historic aerial photographs (**Appendix A**) were reviewed for information regarding past uses of the Subject Property and surrounding areas. The following aerial photographs at a scale of 1"=500' were available for review: 1928, 1949, 1953, 1964, 1975, 1979, 1985, 1990, 1994, 2005, 2010, and 2014. Aerial photographs were of varying clarity. Historical aerial images offer detailed review of previous land uses on the Subject Property and adjacent properties. Willows Road, north of the current I-8 alignment, was visible on all photographs, and I-8/Alpine Boulevard was constructed between the 1949 and 1953 photographs, with Alpine Boulevard becoming distinguished from I-8 on the 1975 aerial photograph. Agricultural and rural uses adjacent to the Subject Property are first visible on the 1928 aerial photograph, and suburban land uses first appeared on the 1953 aerial photograph. The barn was constructed prior to the 1953 aerial photograph, and the main house and mobile home appears first on the 1985 aerial photograph.

2.7.2 Historic Topographic Maps

Available historic United States Geological Survey (USGS) Topographic Quadrangles (**Appendix B**) were reviewed for information regarding past uses of the Subject Property. The *Viejas Mountain* (*Cuyamaca Peak* and *Cuyamaca* in the earliest maps) Topographic Quadrangle maps dated 1903, 1942, 1944, 1960, 1982, 1988, 1997, and 2012 were available for review. The barn structure first appears on the 1960 topographic map, and the mobile home, main residence, and storage sheds located near the barn and the main residence appear on the 1982, 1988, and 1997 topographic maps in succession. The 1942 topographic map shows Bell Bluff Road, and the 1960 topographic map shows the paved roadway parallel to the northern boundary of the site, which is no longer in use. The 1982 topographic map shows the paved driveway to the main residence and the driveway to the barn.

2.8 SANBORN FIRE INSURANCE MAPS

The Subject Property is unmapped by Sanborn Fire Insurance Maps (**Appendix C**).

2.9 OTHER PHYSICAL SETTING SOURCES

2.9.1 Wetlands Map

According to the Wetlands Mapper, two riverine segments are located on the Subject Property, one in the southern corner of the Subject Property and one in the northern corner of the Subject Property (USFWS, 2018); however, these areas were observed on the April 2018 site visit to be dry.

2.9.2 Floodplain Map

The Federal Emergency Management Agency (FEMA) designates flood risk areas based on a parcel's location with respect to 100-year and 500-year floodplains. A 100-year flood is the flood elevation that has a 1 percent chance of being equaled or exceeded each year and a 500-year flood is the flood elevation that has a 0.2 percent chance of being equaled or exceeded each year. FEMA prepares Flood Insurance Rate Maps (FIRMs) that show the flood risk designations of lands throughout the U.S.

The entirety of the Subject Property is located in unshaded Flood Zone X, which refers to areas determined to be outside the 0.2 percent annual chance floodplain. A copy of the regional floodplain map is included in **Appendix F**.

SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance was to identify current or historic hazardous materials involvement on the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE RECONNAISSANCE FINDINGS

A site reconnaissance of the Subject Property was performed by Aileen Mahoney of AES on April 9, 2018. Adjacent properties were observed to the extent possible without trespassing. **Figures 4** and **5** provide photographs that show the site conditions of the Subject Property at the time of the site visit. Notable features and environmental conditions are summarized below:

- Several utility poles are located on the border of the Subject Property, one of which is equipped with a transformer, which was not observed to be rusted or leaking (**Photo 1**).
- Nonhazardous trash is present on the site (**Photo 2**), including lumber, fencing supplies, bricks, scrap metal, and glass (**Photo 3**).
- An on-site well provides water to the residents (**Photo 4**).
- A propane take provides gas to the residents (**Photo 5**).
- A barn (**Photo 6**), mobile home (**Photo 7**), and main residence (**Photo 8**) are located on the Subject Property, along with two storage sheds (one west of the barn and one east of the main residence).
- No drums, containers, stressed vegetation, stained soils, or non-standard odors were noted on the Subject Property.
- No pools or sumps containing liquids were observed and no containers were present on the Subject Property.

3.3 ADJACENT PROPERTIES

A survey of adjacent properties was performed to the extent possible without trespassing during the April 2018 site visit. The purpose was to identify adjacent land uses to determine if they would affect the planned use of the Subject Property. Adjacent land uses are described below.



PHOTO 1: Transformer located on the central portion of the eastern boundary of the Subject Property.



PHOTO 3: Glass debris located at the southern boundary of the Subject Property.



PHOTO 2: Representative debris located at the southern boundary of the Subject Property.



PHOTO 4: Water well located to the east of the main residence.

SOURCE: AES, 4/23/2018

Figure 4
Site Photographs



PHOTO 5: Propane tank located near the mobile home.



PHOTO 7: Mobile home located north of the main residence.



PHOTO 6: Barn located on the west-central portion of the Subject Property.



PHOTO 8: Main residence located on the east-central portion of the Subject Property.

SOURCE: AES, 4/25/2018

Figure 5
Site Photographs

- North: I-8, residential
- South: Undeveloped open space
- West: Rural residential, undeveloped open space
- East: Undeveloped open space

3.4 INTERVIEWS AND QUESTIONNAIRES

Standard buyer-user and owner questionnaires were completed and are included in **Appendix G**. The questionnaires were distributed by Aileen Mahoney of AES. The Ewiiaapaayp Band of Kumeyaay Indians (Tribe) did not report any activity or use limitations on the Subject Property. The Tribe indicated that the site was previously used for residential and agricultural uses (livestock, hay, and alfalfa production).

SECTION 4.0
RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of each of the parcels. The environmental database review was accomplished by using the services of a computerized search firm, EDR. EDR uses a geographic information system to plot locations of past or current hazardous materials involvement. The EDR Report was reviewed to determine if the Subject Property and adjacent sites are listed on regulatory agency databases. The purpose is to determine if adjacent sites contain RECs that would impact surface and/or subsurface conditions on the Subject Property. The EDR Report identified two unmapped sites; however, it was determined that neither site is located within 1.0 mile of the Subject Property. The complete list of reviewed databases is provided in the EDR report, included in **Appendix E**, and is summarized in **Table 4-1**. Information on past and/or current hazardous materials involvement involving adjacent properties is summarized in **Section 4.2.2**.

TABLE 4-1
ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
United States Environmental Protection Agency (EPA), National Priorities List (NPL), Proposed NPL, Delisted NPL	1.0 mile	No	0
EPA NPL Liens	TP	No	0
EPA, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Federal Facility	0.50 mile	No	0
EPA, CERCLIS – No Further Remedial Action Planned (NFRAP)	0.50 mile	No	0
EPA, Resource Conservation and Recovery Information System (RCRIS) Corrective Action Reports (CORRACTS)	1.0 mile	No	0
EPA, RCRIS - for Treatment, Storage, and Disposal facilities (TSDFs)	0.50 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (large quantity generators [LQG])	0.25 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (small quantity generators [SQG])	0.25 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (conditionally exempt small quantity generators [CESQG])	0.25 mile	No	0
EPA, Land Use Control Information System (LUCIS)	0.50 mile	No	0
EPA, Engineering Controls Sites List (US ENG CONTROLS) List	0.50 mile	No	0
EPA, Sites with Institutional Controls (US INST CONTROLS) List	0.50 mile	No	0
U.S. Coast Guard, National Response Center, Emergency Response Notification System (ERNS)	TP	No	0
State Response Sites (RESPONSE)	1.0 mile	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
EnviroStor Database (ENVIROSTOR)	1.0 mile	No	0
Landfill List (State Waste Facility/Landfill (SWF/LF)	0.50 mile	No	0
Environmental Case Listing (SAN DIEGO CO. SAM)	0.50 mile	No	0
Leaking Underground Storage Tank (LUST) List	0.50 mile	No	0
Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)	0.50 mile	No	0
Statewide SLIC Cases	0.50 mile	No	0
FEMA UST	0.25 mile	No	0
Underground Storage Tank List (UST)	0.25 mile	No	0
Aboveground Storage Tank List (AST)	0.25 mile	No	0
Underground Storage Tanks on Indian Land (Indian UST)	0.25 mile	No	0
Indian Voluntary Cleanup Priority (Indian VCP)	0.50 mile	No	0
Voluntary Cleanup Program Sites (VCP)	0.50 mile	No	0
Brownfields Sites (BROWNFIELDS)	0.50 mile	No	0
EPA, Brownfields Sites (US BROWNFIELDS)	0.50 mile	No	0
Waste Management Unit Database (WMUDS/SWAT)	0.50 mile	No	0
State Recycling Facilities (SWRCY) List	0.50 mile	No	0
Registered Waste Tire Haulers Listing (HAULERS)	TP	No	0
Report on the Status of Open Dumps on Indian Lands (Indian ODI)	0.50 mile	No	0
EPA Open Dump Inventory (ODI)	0.50 mile	No	0
EPA Debris Region 9, Torres Martinez Reservation Illegal Dump Site Locations (DEBRIS REGION 9)	0.50 mile	No	0
DOJ, National Clandestine Laboratory Register (US HIST CDL)	TP	No	0
Historical Calsites Database (HIST Cal-Sites)	1.0 mile	No	0
School Property Evaluation Program (SCH)	0.25 mile	No	0
Clandestine Drug Labs (CDL)	TP	No	0
Hazardous Material Management Division Database (San Diego Co. HMMD)	TP	No	0
Toxic Pits Cleanup Act Sites	1.0 mile	No	0
U.S. Department of Justice (DOJ), Clandestine Drug Labs (US CDL)	TP	No	0
SWEEPS UST Listing	0.25 mile	No	0
Historical (HIST) Registered UST	0.25 mile	No	0
Facility Inventory Database (CA FID UST)	0.25 mile	No	0
Environmental Liens Listing (LIENS)	TP	No	0
CERCLA Lien Information (LIENS 2)	TP	No	0
Deed Restriction Listing (DEED)	0.50 mile	No	0
Hazardous Materials Information Reporting System (HMIRS)	TP	No	0
California Hazardous Materials Information Reporting System (CHMIRS)	TP	No	0
Land Disposal Sites Listing (LDS)	TP	No	0
Military Cleanup Sites Listing (MCS)	TP	No	0
SPILLS 90 data from First Search	TP	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
EPA, Resource Conservation and Recovery Act (RCRA) –Non Generators (NonGen)/No Longer Regulated (NLR)	0.25 mile	No	0
Formerly Used Defense Sites Properties (FUDS)	1.0 mile	No	0
Department of Defense Sites (DOD)	1.0 mile	No	0
State Coalition for Remediation of Drycleaners Listing (SCRD DRYCLEANERS)	0.50 mile	No	0
Financial Assurance Data (US FIN ASSUR)	TP	No	0
EPA Watch List	TP	No	0
2020 Corrective Action Program list (2020 COR ACTION)	0.25 mile	No	0
Toxic Substances Control Act (TSCA)	TP	No	0
Toxic Chemical Release Index System (TRIS)	TP	No	0
Section 7 Tracking System (SSTS)	TP	No	0
Records of Decision (ROD)	1.0 mile	No	0
Risk Management Plans (RMP)	TP	No	0
RCRA Administrative Action Tracking System (RAATS)	TP	No	0
Potentially Responsible Parties (PRP)	TP	No	0
Polychlorinated Biphenyl (PCB) Activity Database System (PADS)	TP	No	0
Integrated Compliance Information System (ICIS)	TP	No	0
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/TSCA Tracking System (FTTS)	TP	No	0
Material Licensing Tracking System (MLTS)	TP	No	0
Steam-Electric Plant Operation Data (COAL ASH DOE)	TP	No	0
Coal Combustion Residues Surface Impoundments List (COAL ASH EPA)	0.50 mile	No	0
PCB Transformer Registration Database (PCB TRANSFORMER)	TP	No	0
Radiation Information Database (RADINFO)	TP	No	0
FTTS Administrative Case Listing (HIST FTTS)	TP	No	0
Incident and Accident Data (DOT OPS)	TP	No	0
Superfund (CERCLA) Consent Decrees (CONSENT)	1.0 mile	No	0
Indian Reservations (INDIAN RESERV)	TP	No	0
Formerly Utilized Sites Remedial Action Program (FUSRAP)	1.0 mile	No	0
Uranium Mill Tailings Sites (UMTRA)	0.50 mile	No	0
Lead Smelter Sites (LEAD SMELTERS)	TP	No	0
Aerometric Information Retrieval System Facility Subsystem (US AIRS)	TP	No	0
Mines Master Index File (US MINES)	0.25 mile	No	0
EPA, Facility Index System (FINDS)	TP	No	0
Unexploded Ordnance Sites (UXO)	1.0 mile	No	0
Hazardous Waste Compliance Docket Listing (DOCKET HWC)	TP	No	0
Bond Expenditure Plan (CA BOND EXP. PLAN)	1.0 mile	No	0
"Cortese" Hazardous Waste & Substances Sites List (Cortese)	0.50 mile	No	0
CUPA Resource List (CUPA Listings)	0.25 mile	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
Drycleaner Facility Listing (DRYCLEANERS)	0.25 mile	No	0
Emissions Inventory Data (EMI)	TP	No	0
Enforcement Action Listing (ENF)	TP	No	0
Financial Assurance Information Listing (Financial Assurance)	TP	No	0
Facility and Manifest Data (HAZNET)	TP	No	0
Hazardous Waste & Substance Site List (HIST CORTESE)	0.50 mile	No	0
EnviroStor Permitted Facilities Listing (HWP)	1.0 mile	No	0
Registered Hazardous Waste Transporter Database (HWT)	0.25 mile	No	0
Mines Site Location Listing (MINES)	TP	No	0
Medical Waste Management Program Listing (MWMP)	0.25 mile	No	0
NPDES Permits Listing (NPDES)	TP	No	0
Pesticide Regulation Licenses Listing (PEST LIC)	TP	No	0
Certified Processors Database (PROC)	0.50 mile	No	0
Proposition 65 Records (Notify 65)	1.0 mile	No	0
Underground Injection Wells Database Listing (UIC)	TP	No	0
Oil Wastewater Pits Listing (WASTEWATER PITS)	0.50 mile	No	0
Waste Discharge System (WDS)	TP	No	0
Well Investigation Program Case List (WIP)	0.25 mile	No	0
ICE	1.0 mile	No	0
Enforcement & Compliance History Information (ECHO)	TP	No	0
EPA Fuels Program Registered Listing (FUELS PROGRAM)	0.25 mile	No	0
EDR Proprietary Manufactured Gas Plant Database (EDR MGP)	1.0 mile	No	0
EDR Historic Auto Stations (US Hist Auto)	0.25 mile	No	0
EDR Exclusive Historic Dry Cleaners (EDR Hist Cleaner)	0.25 mile	No	0
RGA Solid Waste Facilities List (RGA LF)	TP	No	0
Recovered Government Archive (RGA) LUST	TP	No	0

Notes: TP = Target Property
Source: **Appendix E**.

4.2 HAZARDOUS MATERIALS INVOLVEMENT

A regulatory agency database search was performed to identify locations of past and/or current hazardous materials involvement. Regulatory agency databases were searched for records of known storage tank sites and known sites of hazardous materials generation, storage, or contamination; or where violations pertaining to storage, use, or disposal of hazardous materials have occurred. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of Subject Property. It should be noted that the database search is only as accurate as the data entered into the government agency-maintained databases and the date on which those databases were last updated. Installation of USTs or

hazardous material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched.

4.2.1 Subject Property

The Subject Property is not listed on any databases searched through the EDR report (**Appendix E**).

4.2.2 Adjacent Properties

There are no mapped sites within 1.0 mile of the Subject Property (**Appendix E**; DTSC, 2018; SWRCB, 2018).

Two unmapped sites were reported in the EDR Radius Map Report, both of which are located west of Alpine, CA along East Chocolate Summit Drive, more than 1.0 mile from the Subject Property (**Appendix E**). Therefore, these sites are not within the scope of this Phase I ESA.

SECTION 5.0
FINDINGS AND CONCLUSIONS

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the BIA guidelines (602 DM Chapter 2). Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on information gathered while conducting this Phase I ESA, the following environmental conditions were observed:

- During the site reconnaissance, small quantities of nonhazardous debris were observed on the Subject Property, concentrated at the southern boundary.
- No improperly stored hazardous materials or evidence of existing USTs were observed on the Subject Property.
- No CRECs or HRECs have been identified on the Subject Property, and the site is not subject to control or use restriction related to hazardous materials involvement.
- No mapped sites were located within 1.0 mile of the Subject Property. The Subject Property is not affected by known sites.

Based on the site conditions during the site reconnaissance and the information in the EDR Report and other databases, no RECs were identified on or in the immediate vicinity of the Subject Property that would likely pose a significant impact to the environmental integrity of the Subject Property. No additional subsurface hazardous materials investigations of the property are recommended at this time.

SECTION 6.0
REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in 40 CFR 312.10. Aileen Mahoney, Site Assessor and Report Preparer, prepared this report under the professional supervision of David Zweig, P.E., who qualifies as an Environmental Professional as defined in the ASTM Standard E1527-13, and has the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property.

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Appendix L

AES Phase I ESA – Salerno Property



PHASE I
ENVIRONMENTAL SITE ASSESSMENT

EWIIAAPAAYP BAND OF KUMEYAAY INDIANS
SALERNO PARCEL

SEPTEMBER 2016

PREPARED FOR:

Ewiiaapaayp Band of Mission Indians
4058 Willows
P.O. Box 2250
Alpine, CA 91901-1668

PREPARED BY:

Analytical Environmental Services
1801 7th Street, Suite 100
Sacramento, CA 95811
(916) 447-3479

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

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SECTION 1.0
INTRODUCTION

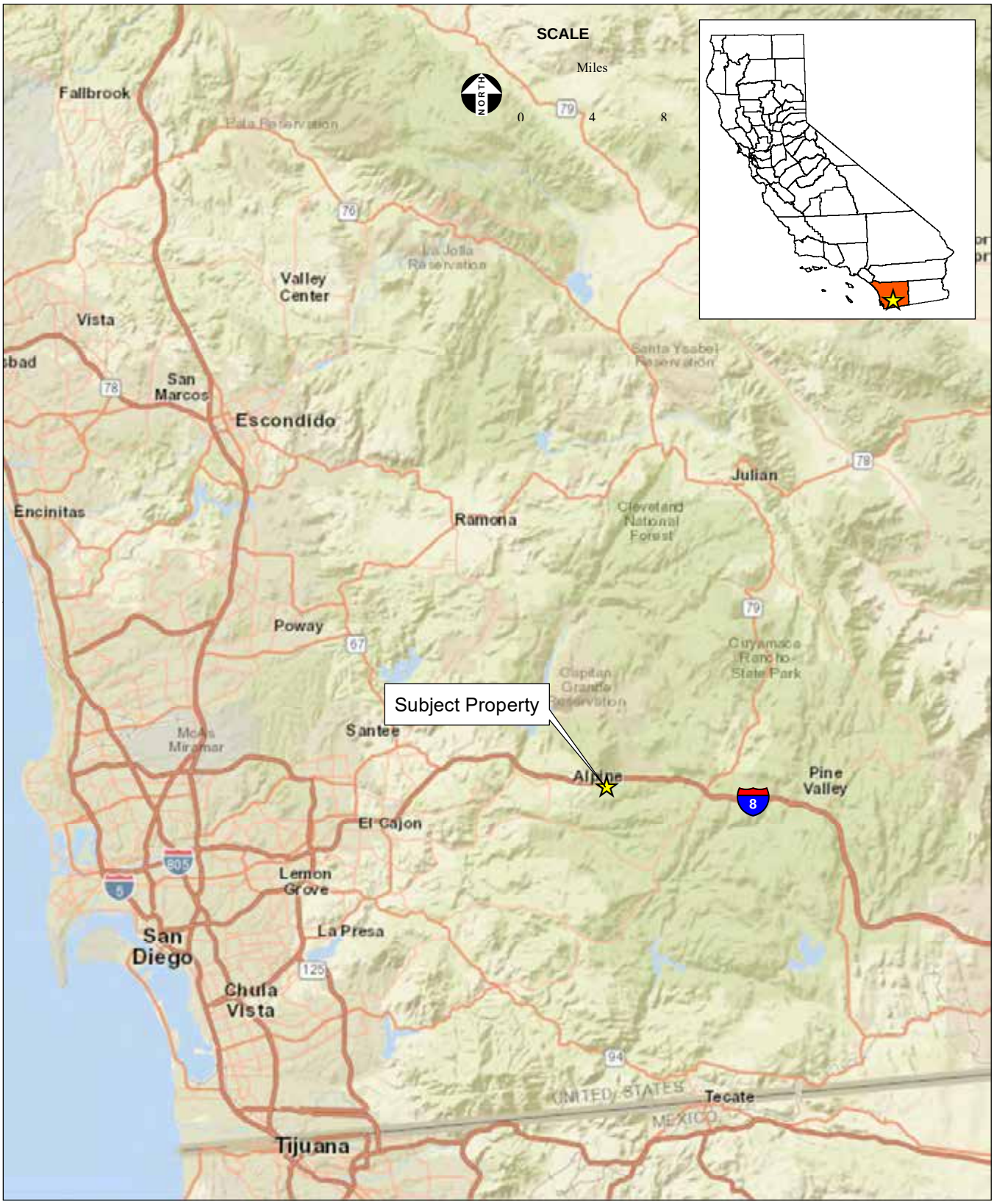
1.1 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-13, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This Phase I ESA encompasses the 18.95-acre property on Alpine Boulevard, identified by San Diego County Assessor's Parcel Number (APN) 404-090-07-00, located in unincorporated San Diego County, California (**Figure 1**). As such, the use of the term "Subject Property" refers to the entire 18.95-acre parcel, unless otherwise stated. The purpose of this assessment is to identify Recognized Environmental Conditions (RECs) that may affect future uses and/or the acceptance of the Subject Property into federal trust.

This Phase I ESA covers the Subject Property and surrounding known sources of contamination, up to 1.0 mile from the Subject Property. A site reconnaissance inspection of the Subject Property and adjacent properties was performed and relevant database listings of hazardous materials sites, waste generators, and underground storage tanks (USTs) were reviewed (EDR, 2016). Additionally, historical topographic maps and aerial photographs of the Subject Property were reviewed.

1.2 RECOGNIZED ENVIRONMENTAL CONDITIONS

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with relevant laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term Historical Recognized Environmental Conditions (HREC) refers to environmental conditions associated with the Subject Property, including a past release of any hazardous substance or petroleum product that have since been remediated, which in the past would have been considered a REC. This Phase I ESA additionally includes the analysis of the presence of Controlled Recognized Environmental Conditions (CREC), for hazardous substance releases that have been partially addressed through remediation, but where some contamination remains in place under certain risk-based restrictions or conditions. HRECs and CRECs are included in this Phase I ESA (ASTM, 2013).



SOURCE: ESRI Data, 2016; AES, 9/19/2016

Figure 1
Regional Location

1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment to ASTM Standard Practice E 1527-13 will reduce, but not eliminate uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historical and current information on the Subject Property within the time available, the possibility of undiscovered contamination remains. This report is a best-effort collection and interpretation of available information consistent with industry standards for the completion of Phase I ESAs.

This Phase I ESA is based on a site reconnaissance of the Subject Property, a visual reconnaissance of adjacent properties, searches of government hazardous materials databases, and interviews with individuals familiar with current and historical uses of the Subject Property. The site reconnaissance was non-substantively limited by physical constraints, including dense vegetation at the northeast corner of the Subject Property and along natural drainage ways in the southern portion of the Subject Property. Physical testing of soil or groundwater is not within the scope of this assessment. Testing for asbestos containing building materials (ACM) and lead-based paint surveys are also not included in this assessment. Information was obtained for this Phase I ESA to comply with current ASTM guidelines.

1.4 METHODOLOGY

A variety of data sources were consulted in completing this Phase I ESA. The following sub-sections describe the methods used and the data sources consulted to accomplish each task.

1.4.1 Historical Review

Previous land uses and history of the Subject Property were researched in an effort to identify RECs, HRECs, and CRECs at or near the Subject Property. Historical aerial photographs (**Appendix A**) and topographic maps (**Appendix B**) from different decades were examined for the presence of aboveground storage tanks, industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage within the study area. Sanborn Fire Insurance Maps document historical property use through abbreviations and map symbols that identify commercial, residential, industrial, residential, and other land uses. However, the Subject Property is unmapped in the Sanborn Library; thus, no records were available for review (**Appendix C**). The City Database Directory was consulted in an attempt to ascertain previous land uses of the Subject Property (**Appendix D**).

1.4.2 Database Searches

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release. Available information from federal, state, and local agency lists consists of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites that manufacture, generate, use, store, and/or dispose

of hazardous materials or hazardous wastes; (d) sites that have underground storage tanks (USTs) and/or above-ground storage tanks (ASTs); and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions on the Subject Property. A full listing of sites within the vicinity of the Subject Property is provided in **Appendix E**.

1.4.3 Site Reconnaissance

Aileen McDuff of Analytical Environmental Services (AES) conducted a reconnaissance inspection of the Subject Property and adjacent properties on September 8, 2016. The purpose of the site reconnaissance was to examine the property for obvious physical indications of improper hazardous substance or petrochemical disposal, such as stained soil or asphalt, stressed vegetation, sumps, partially buried drums, bulk underground and above-ground fuel storage tanks, and other obvious signs of hazardous materials involvement. Furthermore, adjacent properties were visually inspected to the extent possible without trespassing on private property to determine if current land uses would affect the planned uses of Subject Property.

Site reconnaissance was conducted on foot in a counterclockwise loop starting from the northwest corner of the Subject Property, and included transects throughout the center of the Subject Property.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard E 1527-13 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in the Phase I ESA. A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties.

Due to the location of the Subject Property, Sanborn Fire Insurance Maps were not available for the Subject Property. However, aerial photographs and historic topographic maps were available for review of previous uses of the Subject Property. Thus, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA.

1.6 CREDENTIALS

Aileen McDuff prepared this report under the professional supervision of David Zweig, P.E., who qualifies as an environmental professional (EP) as defined in the ASTM Standard E 1527-13 [40 CFR §312.10(b)]. Resumes for Aileen McDuff and David Zweig are included in **Appendix H**.

SECTION 2.0
SITE DESCRIPTION

2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located in unincorporated San Diego County, California (**Figures 2** and **3**). The Subject Property encompasses one parcel (APN 404-090-07-00) totaling 18.95 acres.

2.2 SITE AND VICINITY CHARACTERISTICS

The Subject Property is made up of 18.95 acres consisting of non-native annual grassland. The Subject Property generally slopes from northeast to southwest throughout the site and ranges in elevation from 2220 feet above sea level (asl) to 2320 feet asl. The Subject Property is not within the service boundary for municipal water or wastewater services (Vela, 2016).

Regional access is provided by Interstate 8 (I-8), which runs in an east-west direction north of the Subject Property. Local access to the Subject Property is provided by Alpine Boulevard, a two-lane road that runs along the northern boundary of the property and Star Valley Road, a two lane road that runs along the eastern boundary of the property. No paved roads exist within the Subject Property. An unused unpaved road exists on the northeastern portion of the Subject Property.

2.3 LOCAL ENVIRONMENTAL RECORDS SOURCES

2.3.1 Local Environmental Agency

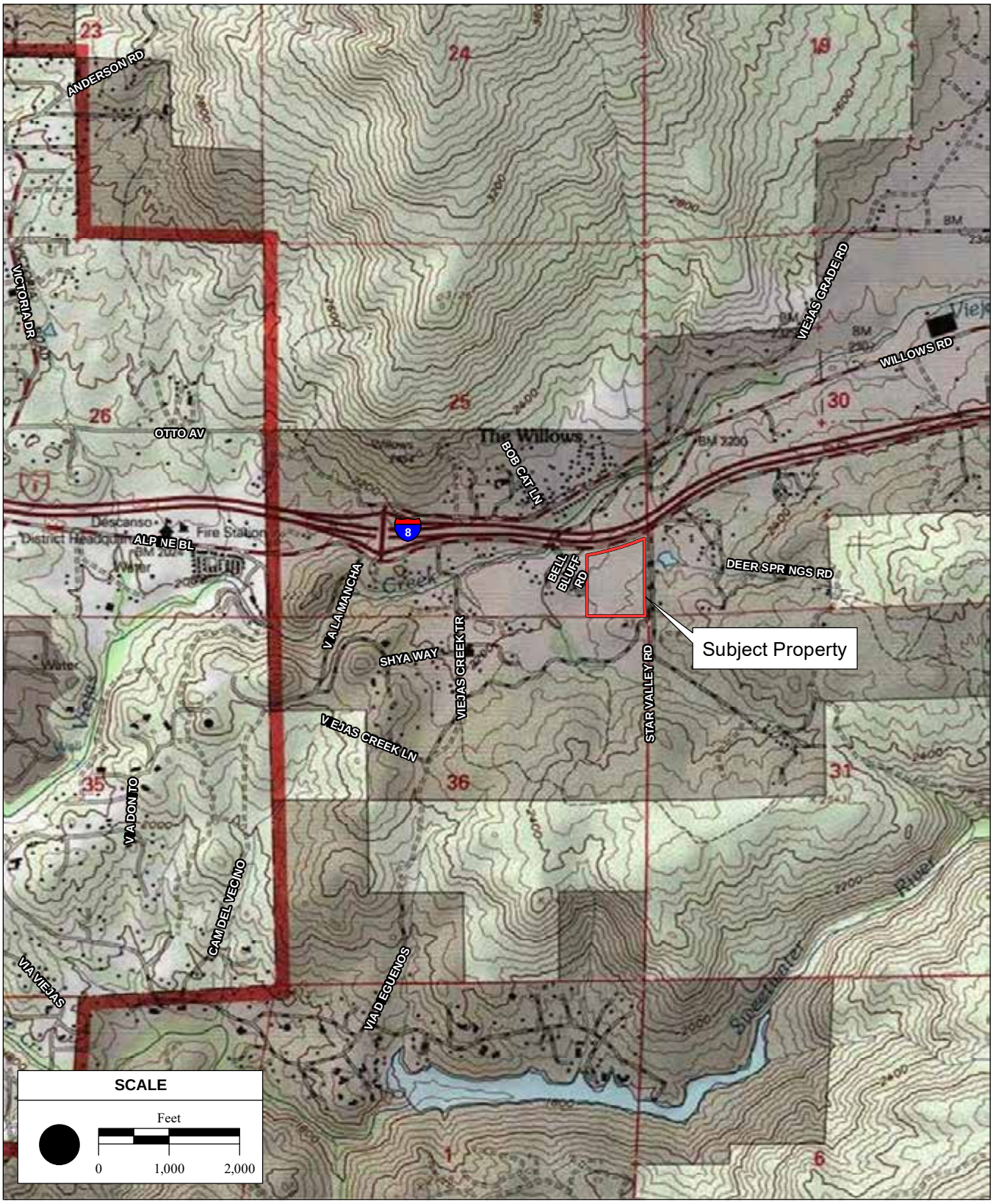
The Environmental Database Research, Inc. (EDR) report (**Appendix E**), the California Department of Toxic Substances Control (DTSC) EnviroStor website, and the US Environmental Protection Agency (EPA) Facility Registry Service (FRS) and Envirofacts website provided search and documentation of the available local hazardous materials data.

2.3.2 Department of Planning and Zoning

Zoning designations on the Subject Property were reviewed through information provided by San Diego County. The Subject Property is zoned as limited agriculture. The land use designation of the Subject Property is Semi-Rural Residential 2 (San Diego County, 2016).

2.3.3 Electrical Utility Company

Sempra San Diego Gas and Electric (SDG&E) provides electrical service within the vicinity of the Subject Property (Sempra, 2016).



SOURCE: "Viejas Mountain, CA" USGS 7.5 Minute Topographic Quadrangle,
T15S, R2E, Section 25, San Bernardino Baseline & Meridian;
ESRI Data, 2016; AES, 9/19/2016

Figure 2
Site and Vicinity



SOURCE: USDA aerial photograph, 5/29/2014; AES, 9/27/2016

Figure 3
Aerial Photograph

2.4 HYDROLOGY

Surface water drainage within the Subject Property occurs primarily from northeast to southwest. Two drainage washes located in the southern portion of the Subject Property run from east to west and join near the southwest corner of the Subject Property.

2.5 GEOLOGY AND SOILS

The rock stratigraphic unit of the Subject Property is of the Mesozoic era, Cretaceous system, and Cretaceous granitic rock series (**Appendix E**). The dominant soils on the Subject Property are Fallbrook sandy loam and Visalia sandy loam. Both soils are well drained with moderate infiltration rates (**Appendix E**). The Subject Property is located within 30 miles of strike-slip faults to the east and west of the Subject Property (USGS, 2016).

2.6 CURRENT USES OF THE SUBJECT PROPERTY

A site reconnaissance of the Subject Property was performed on September 8, 2016, by Aileen McDuff of AES. The Subject Property is currently unused and undeveloped. Site photos showing the conditions of the Subject Property are shown in **Figures 4** and **5** in **Section 3.0**. The Subject Property contains no structures, remnants of structures, water or wastewater systems, or paved roadways. One culvert exists adjacent to Star Valley Road at the northeast corner of the Subject Property, and two culverts exist in the northwest portion of the Subject Property where the unpaved roadway is located and beneath Alpine Boulevard.

The Ewiiaapaayp Band of Kumeyaay Indians (Tribe) purchased the Subject Property on June 5, 2000. According to the Tribe, the Subject Property continues its use as open space and the Tribe's land use designation does not permit any development, physical alteration, or change in land use for Subject Property (Micklin, 2016).

2.7 HISTORIC USES OF THE SUBJECT PROPERTY

2.7.1 Aerial Photographs

Available historic aerial photographs (**Appendix A**) were reviewed for information regarding past uses of the Subject Property and surrounding areas. The following aerial photographs were available for review: 1949 (1"=500'), 1953 (1"=500'), 1964 (1"=500'), 1975 (1"=500'), 1979 (1"= 500'), 1985 (1"=500'), 1990 (1"=500'), 1994 (1"= 500'), 2005 (1"=500'), 2009 (1"=500'), 2010 (1"=500'), and 2012 (1"=500'). Aerial photographs were of varying clarity. Historical aerial images offer detailed review of previous land uses on the Subject Property and adjacent properties. Willows Road was visible on all photographs, and I-8/Alpine Boulevard was constructed between the 1949 and 1953 photographs, with Alpine Boulevard becoming distinguished from I-8 on the 1975 aerial photograph. Agricultural and rural uses adjacent to the Subject Property are first visible on the 1949 aerial photograph, and suburban land uses first appeared on the 1953 aerial photograph. The Subject Property appears undeveloped in all aerial photographs.

2.7.2 Historic Topographic Maps

Available historic USGS Topographic Quadrangles (**Appendix B**) were reviewed for information regarding past uses of the Subject Property. The *Viejas Mountain* (*Cuyamaca Peak* and *Cuyamaca* in the earliest maps) Topographic Quadrangle maps dated 1903, 1942, 1944, 1960, 1982, 1988, 1997, and 2012 were available for review. No structures, oil wells, or water features can be identified on the Subject Property in any of the topographic maps. The 1960 topographic map shows the unpaved roadway passing through the Subject Property to the northwest.

2.8 SANBORN FIRE INSURANCE MAPS

The Subject Property is unmapped by Sanborn Fire Insurance Maps (**Appendix C**).

2.9 OTHER PHYSICAL SETTING SOURCES

2.9.1 Wetlands Map

According to the Wetlands Mapper, two riverine segments are located on the Subject Property, one in the southern portion of the Subject Property and one in the northeast corner of the Subject Property (USFWS, 2016); however, no riverine areas were observed on the September 8, 2016, site visit.

2.9.2 Floodplain Map

The Federal Emergency Management Agency (FEMA) designates flood risk areas based on a parcel's location with respect to 100-year and 500-year floodplains. A 100-year flood is the flood elevation that has a 1 percent chance of being equaled or exceeded each year and a 500-year flood is the flood elevation that has a 0.2 percent chance of being equaled or exceeded each year. FEMA prepares Flood Insurance Rate Maps (FIRMs) that show the flood risk designations of lands throughout the U.S.

The entirety of the Subject Property is located in unshaded Flood Zone X, which refers to areas determined to be outside the 0.2 percent annual chance floodplain. A copy of the regional floodplain map is included in **Appendix F**.

SECTION 3.0
SITE RECONNAISSANCE AND INTERVIEWS

3.1 OBJECTIVE

The objective of the site reconnaissance was to identify current or historic hazardous materials involvement on the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into any structure on the property, soil, or groundwater. Signs of possible hazardous materials involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE RECONNAISSANCE FINDINGS

A site reconnaissance of the Subject Property was performed by Aileen McDuff of AES on September 8, 2016. Adjacent properties were observed to the extent possible without trespassing. **Figures 4** and **5** provide photographs that show the site conditions of the Subject Property at the time of the site visit. Notable features and environmental conditions are summarized below:

- Several utility poles are located on the border of the Subject Property, three of which are equipped with transformers (**Photo 1** and **Photo 2**).
- Two culverts are located along the northern boundaries of the Subject Property (**Photo 3** and **Photo 4**), and one culvert is located in the northwest portion of the Subject Property (**Photo 5**).
- Nonhazardous trash is present on the site (**Photo 6**), including an old toilet seat (**Photo 7**).
- Yard waste, a fill pile, and discarded glass was present at the time of the site visit adjacent to the site access driveway (**Photo 8** and **Photo 9**). The fill pile was not associated with non-standard odors, stained soil, or stressed vegetation nearby, and did not otherwise appear to contain hazardous materials.
- No drums, containers, stressed vegetation, stained soils, or non-standard odors were noted on the Subject Property.
- No pools or sumps containing liquids were observed and no containers were present on the Subject Property.



PHOTO 1: Utility pole and transformer adjacent to western boundary of Subject Property.



PHOTO 2: Utility pole and transformer adjacent to southern boundary of Subject Property.



PHOTO 3: Culvert at northwest corner of Subject Property beneath Alpine Boulevard.



PHOTO 4: Culvert at northeast corner of Subject Property beneath Star Valley Road.



PHOTO 5: Culvert in northwest portion of Subject Property beneath unused dirt road.

SOURCE: AES, 9/19/2016

Figure 4
Site Photographs



PHOTO 6: Representative debris located on Subject Property.



PHOTO 7: Toilet seat located interior to Subject Property near north boundary.



PHOTO 8: Yard waste and dirt pile located south of site access driveway.



PHOTO 9: Broken glass discarded south of site access driveway.

SOURCE: AES, 9/19/2016

Figure 5
Site Photographs

3.3 ADJACENT PROPERTIES

A survey of adjacent properties was performed to the extent possible without trespassing during the September 2016 site visit. The purpose was to identify adjacent land uses to determine if they would affect the planned use of the Subject Property. Adjacent land uses are described below.

- North: Residential
- South: Residential, undeveloped
- West: Residential, undeveloped
- East: Residential

3.4 INTERVIEWS AND QUESTIONNAIRES

Standard buyer-user and owner questionnaires were completed and are included in **Appendix G**. The questionnaire was distributed by Aileen McDuff (AES). The Tribe did not report any activity or use limitations on the Subject Property.

SECTION 4.0
RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of each of the parcels. The environmental database review was accomplished by using the services of a computerized search firm, Environmental Data Resources, Inc. (EDR). EDR uses a geographic information system to plot locations of past or current hazardous materials involvement. The EDR Report was reviewed to determine if the Subject Property and adjacent sites are listed on regulatory agency databases. The purpose is to determine if adjacent sites contain RECs that would impact surface and/or subsurface conditions on the Subject Property. The EDR Report identified two unmapped sites; however, it was determined that neither site is located within 1.0 mile of the Subject Property. The complete list of reviewed databases is provided in the EDR report, included in **Appendix E**, and is summarized in **Table 4-1**. Information on past and/or current hazardous materials involvement involving adjacent properties is summarized in **Section 4.2.2**.

TABLE 4-1
ENVIRONMENTAL DATA RESOURCES (EDR) SUMMARY OF AGENCY DATABASES

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
United States (U.S.) Environmental Protection Agency (EPA), National Priorities List (NPL), Proposed NPL, Delisted NPL	1.0 mile	No	0
EPA NPL Liens	TP	No	0
EPA, Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS), Federal Facility	0.50 mile	No	0
EPA, CERCLIS – No Further Remedial Action Planned (NFRAP)	0.50 mile	No	0
EPA, Resource Conservation and Recovery Information System (RCRIS) Corrective Action Reports (CORRACTS)	1.0 mile	No	0
EPA, RCRIS - for Treatment, Storage, and Disposal facilities (TSDFs)	0.50 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (large quantity generators [LQG])	0.25 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (small quantity generators [SQG])	0.25 mile	No	0
EPA, RCRIS - for Hazardous Waste Generators (conditionally exempt small quantity generators [CESQG])	0.25 m-ile	No	0
EPA, Land Use Control Information System (LUCIS)	0.50 mile	No	0
EPA, Engineering Controls Sites List (US ENG CONTROLS) List	0.50 mile	No	0
EPA, Sites with Institutional Controls (US INST CONTROLS) List	0.50 mile	No	0
U.S. Coast Guard, National Response Center, Emergency Response Notification System (ERNS)	TP	No	0
State Response Sites (RESPONSE)	1.0 mile	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
EnviroStor Database (ENVIROSTOR)	1.0 mile	No	0
Landfill List (State Waste Facility/Landfill (SWF/LF)	0.50 mile	No	0
Environmental Case Listing (SAN DIEGO CO. SAM)	0.50 mile	No	0
Leaking Underground Storage Tank (LUST) List	0.50 mile	No	0
Leaking Underground Storage Tanks on Indian Land (INDIAN LUST)	0.50 mile	No	0
Statewide SLIC Cases	0.50 mile	No	0
FEMA UST	0.25 mile	No	0
Underground Storage Tank List (UST)	0.25 mile	No	0
Aboveground Storage Tank List (AST)	0.25 mile	No	0
Underground Storage Tanks on Indian Land (Indian UST)	0.25 mile	No	0
Indian Voluntary Cleanup Priority (Indian VCP)	0.50 mile	No	0
Voluntary Cleanup Program Sites (VCP)	0.50 mile	No	0
Brownfields Sites (BROWNFIELDS)	0.50 mile	No	0
EPA, Brownfields Sites (US BROWNFIELDS)	0.50 mile	No	0
Waste Management Unit Database (WMUDS/SWAT)	0.50 mile	No	0
State Recycling Facilities (SWRCY) List	0.50 mile	No	0
Registered Waste Tire Haulers Listing (HAULERS)	TP	No	0
Report on the Status of Open Dumps on Indian Lands (Indian ODI)	0.50 mile	No	0
EPA Open Dump Inventory (ODI)	0.50 mile	No	0
EPA Debris Region 9, Torres Martinez Reservation Illegal Dump Site Locations (DEBRIS REGION 9)	0.50 mile	No	0
DOJ, National Clandestine Laboratory Register (US HIST CDL)	TP	No	0
Historical Calsites Database (HIST Cal-Sites)	1.0 mile	No	0
School Property Evaluation Program (SCH)	0.25 mile	No	0
Clandestine Drug Labs (CDL)	TP	No	0
Hazardous Material Management Division Database (San Diego Co. HMMD)	TP	No	0
Toxic Pits Cleanup Act Sites	1.0 mile	No	0
U.S. Department of Justice (DOJ), Clandestine Drug Labs (US CDL)	TP	No	0
SWEEPS UST Listing	0.25 mile	No	0
Historical (HIST) Registered UST	0.25 mile	No	0
Facility Inventory Database (CA FID UST)	0.25 mile	No	0
Environmental Liens Listing (LIENS)	TP	No	0
CERCLA Lien Information (LIENS 2)	TP	No	0
Deed Restriction Listing (DEED)	0.50 mile	No	0
Hazardous Materials Information Reporting System (HMIRS)	TP	No	0
California Hazardous Materials Information Reporting System (CHMIRS)	TP	No	0
Land Disposal Sites Listing (LDS)	TP	No	0
Military Cleanup Sites Listing (MCS)	TP	No	0
SPILLS 90 data from First Search	TP	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
EPA, Resource Conservation and Recovery Act (RCRA) –Non Generators (NonGen)/No Longer Regulated (NLR)	0.25 mile	No	0
Formerly Used Defense Sites Properties (FUDS)	1.0 mile	No	0
Department of Defense Sites (DOD)	1.0 mile	No	0
State Coalition for Remediation of Drycleaners Listing (SCRD DRYCLEANERS)	0.50 mile	No	0
Financial Assurance Data (US FIN ASSUR)	TP	No	0
EPA Watch List	TP	No	0
2020 Corrective Action Program list (2020 COR ACTION)	0.25 mile	No	0
Toxic Substances Control Act (TSCA)	TP	No	0
Toxic Chemical Release Index System (TRIS)	TP	No	0
Section 7 Tracking System (SSTS)	TP	No	0
Records of Decision (ROD)	1.0 mile	No	0
Risk Management Plans (RMP)	TP	No	0
RCRA Administrative Action Tracking System (RAATS)	TP	No	0
Potentially Responsible Parties (PRP)	TP	No	0
Polychlorinated Biphenyl (PCB) Activity Database System (PADS)	TP	No	0
Integrated Compliance Information System (ICIS)	TP	No	0
Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)/TSCA Tracking System (FTTS)	TP	No	0
Material Licensing Tracking System (MLTS)	TP	No	0
Steam-Electric Plant Operation Data (COAL ASH DOE)	TP	No	0
Coal Combustion Residues Surface Impoundments List (COAL ASH EPA)	0.50 mile	No	0
PCB Transformer Registration Database (PCB TRANSFORMER)	TP	No	0
Radiation Information Database (RADINFO)	TP	No	0
FTTS Administrative Case Listing (HIST FTTS)	TP	No	0
Incident and Accident Data (DOT OPS)	TP	No	0
Superfund (CERCLA) Consent Decrees (CONSENT)	1.0 mile	No	0
Indian Reservations (INDIAN RESERV)	TP	No	0
Formerly Utilized Sites Remedial Action Program (FUSRAP)	1.0 mile	No	0
Uranium Mill Tailings Sites (UMTRA)	0.50 mile	No	0
Lead Smelter Sites (LEAD SMELTERS)	TP	No	0
Aerometric Information Retrieval System Facility Subsystem (US AIRS)	TP	No	0
Mines Master Index File (US MINES)	0.25 mile	No	0
EPA, Facility Index System (FINDS)	TP	No	0
Unexploded Ordnance Sites (UXO)	1.0 mile	No	0
Hazardous Waste Compliance Docket Listing (DOCKET HWC)	TP	No	0
Bond Expenditure Plan (CA BOND EXP. PLAN)	1.0 mile	No	0
"Cortese" Hazardous Waste & Substances Sites List (Cortese)	0.50 mile	No	0
CUPA Resource List (CUPA Listings)	0.25 mile	No	0

Agency Database	Minimum Search Distance	Property Listed	Sites Listed
Drycleaner Facility Listing (DRYCLEANERS)	0.25 mile	No	0
Emissions Inventory Data (EMI)	TP	No	0
Enforcement Action Listing (ENF)	TP	No	0
Financial Assurance Information Listing (Financial Assurance)	TP	No	0
Facility and Manifest Data (HAZNET)	TP	No	0
Hazardous Waste & Substance Site List (HIST CORTESE)	0.50 mile	No	0
EnviroStor Permitted Facilities Listing (HWP)	1.0 mile	No	0
Registered Hazardous Waste Transporter Database	0.25 mile	No	0
Mines Site Location Listing (MINES)	TP	No	0
Medical Waste Management Program Listing (MWMP)	0.25 mile	No	0
NPDES Permits Listing (NPDES)	TP	No	0
Pesticide Regulation Licenses Listing (PEST LIC)	TP	No	0
Certified Processors Database (PROC)	0.50 mile	No	0
Proposition 65 Records (Notify 65)	1.0 mile	No	0
Underground Injection Wells Database Listing (UIC)	TP	No	0
Oil Wastewater Pits Listing (WASTEWATER PITS)	0.50 mile	No	0
Waste Discharge System (WDS)	TP	No	0
Well Investigation Program Case List (WIP)	0.25 mile	No	0
ICE	1.0 mile	No	0
Enforcement & Compliance History Information (ECHO)	TP	No	0
EPA Fuels Program Registered Listing (FUELS PROGRAM)	0.25 mile	No	0
EDR Proprietary Manufactured Gas Plant Database (EDR MGP)	1.0 mile	No	0
EDR Historic Auto Stations (US Hist Auto)	0.25 mile	No	0
EDR Exclusive Historic Dry Cleaners (EDR Hist Cleaner)	0.25 mile	No	0
RGA Solid Waste Facilities List (RGA LF)	TP	No	0
Recovered Government Archive (RGA) LUST	TP	No	0

Notes: TP = Target Property
Source: **Appendix E**.

4.2 HAZARDOUS MATERIALS INVOLVEMENT

A regulatory agency database search was performed to identify locations of past and/or current hazardous materials involvement. Regulatory agency databases were searched for records of known storage tank sites and known sites of hazardous materials generation, storage, or contamination, or where violations pertaining to storage, use, or disposal of hazardous materials have occurred. Databases were searched for sites and listings up to 1.0 mile from a point roughly equivalent to the center of Subject Property. It should be noted that the database search is only as accurate as the data entered into the government agency-maintained databases and the date on which those databases were last updated. Installation of USTs or

hazardous material releases, if not reported to the appropriate agency, would not be listed on any of the databases searched.

4.2.1 Subject Property

The Subject Property is not listed on any databases searched through the EDR report (**Appendix E**).

4.2.2 Adjacent Properties

There are no mapped sites within 1.0 mile of the Subject Property (**Appendix E**).

Two unmapped sites were reported in the EDR Radius Map Report, both of which are located west of Alpine CA, more than one mile from the Subject Property (**Appendix E**). Therefore, these sites are not within the scope of this Phase I ESA.

SECTION 5.0
FINDINGS AND CONCLUSIONS

This Phase I ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E 1527-13 and the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2). Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on information gathered while conducting this Phase I ESA, the following environmental conditions were observed:

- During the site reconnaissance, small quantities of nonhazardous debris were observed on the Subject Property, concentrated at the site access driveway.
- No improperly stored hazardous materials or evidence of existing underground storage tanks were observed on the Subject Property.
- No Controlled Recognized Environmental Conditions (CRECs) or Historical Recognized Environmental Conditions (HRECs) have been identified on the Subject Property, and the site is not subject to control or use restriction related to hazardous materials involvement.
- No mapped sites were located within one mile of the Subject Property. The Subject Property is not affected by known sites.

Based on the site conditions during the site reconnaissance and the information in the EDR Report and other databases, no RECs were identified on or in the immediate vicinity of the Subject Property that would likely pose a significant impact to the environmental integrity of the Subject Property. No additional subsurface hazardous materials investigations of the property are recommended at this time.

SECTION 6.0
REPORT AUTHORS AND REFERENCES

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. Aileen McDuff, Site Assessor and Report Preparer, created this report under the professional supervision of David Zweig, Professional Engineer (P.E.), who qualifies as an environmental professional (EP) as defined in the ASTM Standard E 1527-13, and has the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property.

REPORT PREPARATION

Analytical Environmental Services
1801 7th Street, Suite 100
Sacramento, CA 95811

Site Assessor and Report Preparer: _____
Aileen McDuff

Senior Reviewer: _____
David Zweig, P.E.



REFERENCES

American Society for Testing and Materials (ASTM), 2013. Practice E 1527-13: "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment."

Environmental Data Resources, Inc. (EDR), 2016. Radius Map Report with GeoCheck, Inquiry No. 4713691.2s, dated August 29, 2016.

Micklin, Will. 2016. CEO of the Ewiiaapaayp Band of Kumeyaay Indians. Personal communication on September 20, 2016.

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Vela, Desi, 2016. Personal communication during the September 8, 2016, site visit between the Tribe (Desi Vela) and AES (Aileen McDuff). September 8, 2016.

Appendix M

BIA Survey Walker I Property

UNITED STATES GOVERNMENT

memorandum

DATE: June 19, 2008

REPLY TO ATTN OF: Regional Director, Pacific Region

SUBJECT: Phase I Contaminant Survey – "Walker" Parcel, APN 404-080-24
Fee-to-Trust (FTT) Land Acquisition Proposal for the Ewiiaapaayp Band of Kumeyaay Indians

TO: Superintendent, Southern California Agency
Attn: Beverly Sweetwater, Realty Specialist

The Agency should have the original Phase I Contaminant Survey for the proposed 16.69 acre FTT land acquisition known as the "Walker" parcel described as APN 404-080-24, The survey was conducted on August 31, 2000, by Environmental Science Associates on behalf of the Ewiiaapaayp Band of Kumeyaay Indians.

The purpose of a contaminant survey is to determine the risk of exposing the Department to liability for hazardous substances or other environmental cleanup costs and damages associated with the acquisition of real property for the United States. Further, as one of the provisions of 602 Department Manual (DM) 2, pre-acquisition environmental site assessments will be considered adequate for a period not to exceed 6 months prior to the date of the acquisition of real property. Exceptions to this time limit will be considered for property located in adverse climatic or geographical areas.

Due to the time lapse from the first survey, an update was conducted by the Pacific Region's assistant FTT EPS. At the time of the original survey, the parcel was characterized as "currently used for agriculture (oat field)". The assistant FTT EPS conducted a pedestrian survey of the entire parcel and observed that the field is no longer being used for agricultural purposes, thereby characterizing it as formerly used, vacant agricultural property.

Based on my level of approval authority, I concur with the contractor's original judgment of the adequacy of the August 31, 2001 Phase I Contaminant Survey and the update that was conducted by the Assistant FTT EPS on June 16, 2008.

If you have any questions, please contact John Rydzik, Division Chief, DECRMS at (916) 978-6042.

Phase 1 Survey:
Contaminant Survey Checklist
for Proposed Real Estate Acquisitions
(Rev. 9/16/2002)

INSTRUCTIONS: Check for each category. Explain briefly where something other than "no", "None", or "Not Applicable" is checked. Discuss whether a Phase II or III Survey will be recommended. Describe the distance if nearby is checked and whether there is a known potential pathway for contamination on site.

A. Background Information

Bureau Name Bureau of Indian Affairs, Southern California Agency

Site Name South Health Clinic (Walker) Site **County:** San Diego **State:** CA

APN#: 404-080-24 **Acres:** 16.69 **Reservation:** Ewiiaapaayp

Date of Survey June 16, 2008 **Print Name** Valerie Thomas

B. Site Inspection Screen:	On Site	Near-by	None
1. Dumps, radioactive materials, hazardous waste, especially with .drums or containers (Read labels if possible; DO NOT open or handle! If no labels, note identifying characteristics)			X
2. Other debris: household, farm, industrial waste		X	X
3. Fills: possible cover for dumps	X		
4. Unusual chemical odors			X
5. Storage tanks: petroleum products pesticides, etc.			X
6. Buildings: Asbestos materials, radon etc., lead based paint, chemical storage, equipment repair, solvents			X
7. Structures – evidence of asbestos sprayed fire proofing, acoustical plaster, also see #6 above			X
8. Vegetation different from surrounding for no apparent reason, e.g. bare ground			X
9. "Sterile" or modified water bodies			X
10. Oil seeps, stained ground, discolored stream banks	X		
11. Oil slicks on water, unusual colors on water			X
12. Spray operation base: airstrip, equipment parking area			X
13. Machinery repair areas			X
14. Pipelines or major electrical equipment			X
15. Oiled or formerly oiled roads			X
16. Electric transmission lines: pole or pad mounted transformers (any leakage?)			X

C. **Record Searches (Coordinate with Realty Title Search, and Other Appropriate Searches.)**

1. **Past uses which might indicate potential problems at the site (CIRCLE any that are applicable.)**
   Manufacturing, service stations, dry cleaning, air strip, pipelines, railroad lines, facilities with large electrical transformers or pumping equipment, petroleum production, landfills, scrap metal, auto, or battery recycling, military, labs, wood preserving, other describe _____ **None X**

2. **Nearby land uses, especially upstream or up gradient, or that might have had waste to dump at site (see list under Past Uses) Identify: _____** **None X**

3. **Known contaminant sites in vicinity NPL, state sites, candidate sites (check with EPA; State EPA counterpart)** **Yes ___ No X**

4. **Interviews on past use: owners, neighbors, County agents and any appropriate Federal Authorities: Problems: none** **Yes _X__ No __**

5. **Agricultural drainage history: surface, subsurface drains.** **Yes _X__ No __**

D. **In acquiring land from another Federal agency, that agency has notified the Department of the past or current presence of a hazardous substance under Section 120(h) of CERCLA (Superfund).**

Not applicable _X__ **Yes ___ No ___**

E. **Has a non-Federal entity identified any Hazardous materials problems on or near the site surveyed?** **Yes ___ No X**

F. **A Phase II Study is Recommended.** **Yes ___ No X**
A Phase III Study is Recommended. **Yes ___ No X**

G. **Required Supplemental Information**

ALL ATTACHMENTS ARE ATTACHED IMMEDIATELY BEHIND THIS PAGE.

Attachment A.

Consultants Phase 1 report or your narrative description of the parcel and any contamination sites, and justification for your certification.

Attachment B.

Aerial photographic prints and dates taken: TBD

Attachment C.

Parcel site color photographic prints and date taken: June 16, 2008

Attachment D.

Map showing location of potential contamination sites.
(If none state: NONE)
NONE

H. **Potential Limits on Federal Liability**

1. **Another Federal agency has certified that contaminants are not present on the site and/or agreed to assume full liability for any contamination which does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify: None

2. **An individual or non-Federal entity has certified that contaminants are not present on the site an/or agreed to assume full liability for any contamination which does exist. (Attach copies of documents for review by the Office of the Solicitor.)**

   Identify: None

I. CERTIFICATION by Consultant or Agency Environmental Protection Spec.

1. I hereby certify that to the best of my knowledge no contaminants are present on this real estate, and there are no obvious signs of any effects of contamination.

cpm

Signed _____ Print Name Valerie Thomas

Date 19 June 08 Title Environmental Protection Specialist

2. On the basis of the information collected to complete this form, it is possible to reasonably conclude that there is a potential for contaminants, or the effects of contaminants, to be present on this real estate.

Signed _____ Print Name _____

Date _____ Title _____

3. The surveyed real estate, or a portion thereof, contains contaminants. The owner of that real estate has/will cleanup the contaminants to Bureau specifications. A Phase II or Phase III Survey is not required.

Signed _____ Print Name _____

Date _____ Title _____

J. Agency Environmental Protection Specialist - Reviewed the report findings and conclusions in the field with the above consulting company and recommend approval.

Signed _____ Print Name _____

Date _____ Title _____

K. Pacific Regional Office - Reviewed and recommend approval.

Signed _____ Print Name John Rydzik

Date _____ Title Regional Environmental Scientist

L. Pacific Regional Office - Approving Official:

I approve the above report and its certification.

Signed _____ Print Name Dale Morris

Date _____ Title Regional Director

ATTACHMENT A

Narrative, Consultant Phase 1 Survey Report

NARRATIVE

EWIIAAPAAYP BAND OF KUMEYAAY INDIANS
FEE TO TRUST LAND ACQUISITION
"WALKER PROPERTY"
16.69 ACRES

On June 16, 2008, the Bureau of Indian Affairs (BIA), the Assistant Pacific Regional Environmental Protection Specialist conducted an updated Phase I Contaminant Survey for the Ewiiaapaayp Band of Kumeyaay Indians with the assistance of Willie Micklin, Tribal Chief Executive Officer, and Desi Vela, Tribal Field Technician. The subject parcel, SE ¼ of Section 25 of the Viejas Mountain U.S.G.S. Quadrangle within Township 17 south and Range 3 East, is located in eastern San Diego County near the community of Alpine, California, south of Interstate 8 off of Alpine Boulevard, approximately ½ mile east of the Willows Road exit, and is commonly described as APN 404-080-024.

The parcel is located in a rural residential area contiguous to the Ewiiaapaayp Indian Reservation and is currently vacant former agricultural land. The parcel has been periodically tilled for weed control, allowing for a thorough observation of the property. An inspection of the property and immediate area surrounding the parcel revealed no evidence of hazardous material contamination.

Minor farm-related debris consisting of wood and metal pipe fence posts, concrete slab fragments, 3 tires, and palm tree cuttings are present on the southern and western boundaries of the property. Approximately 100 cubic feet of recently deposited fill is present just inside the entrance to the property. The dirt appears to be uncontaminated and probably deposited by the neighbor (Harrington) whose property is immediately adjacent to the fill material. A Komatsu excavator is present on the Harrington property, which is also the probable source of minor POL staining on the path just inside the Walker property, adjacent to the Harrington property, judging from the tracked vehicle marks which are the same size and type as the Komatsu excavator.

There is evidence of past agricultural drainage in the presence of broken/defunct drainage piping on the southwestern, western, and northern edges of the property, leading into the natural drainage ditch/arroyo bounding the southern, western and northern edges of the property. From interviews with the Tribal CEO and Field Technician, the property historically was utilized to grow buckwheat, oats and other grain crops before it was sold to the Tribe. A neighbor to the west now periodically tills the field (with the Tribe's approval) to minimize weed (mustard) infestation.

A properly fenced, empty, defunct concrete water reservoir is located at the northeastern corner of the property.

The attached photographs, maps and supporting documentation are provided in this report to support our finding of no recognized environmental conditions or the potential for environmental conditions to exist.

ATTACHMENT B

Aerial Photographs

ATTACHMENT C

Parcel Site Color Photographs









